RX-555BK
RX-555LBK

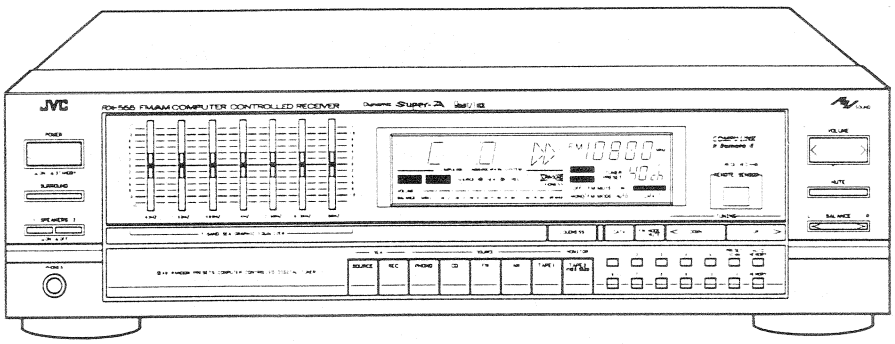
652

JVC

SERVICE MANUAL

COMPUTER CONTROLLED RECEIVER

MODEL No. RX-555BK
RX-555LBK



Contents

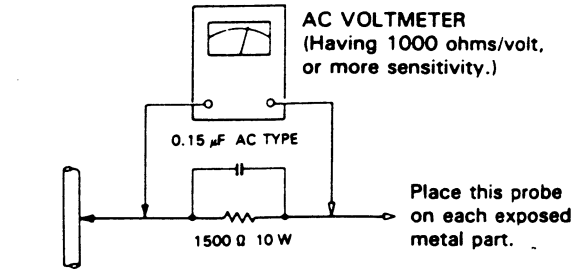
Safety Precautions 1-2
Specifications 1-3
Instruction Book 1-4
Removal Procedures 1-12
FM/MW/LW Tuner Alignment Procedures 1-13
Power Amplifier Idling Current Adjustment 1-14
Internal Block Diagrams of ICs 1-15
Schematic Diagrams ..... Insertion
Remote Control Unit (RM-SR555) ..... Insertion
Connection Diagram ..... Insertion
Internal Wiring of LCD ..... Insertion
Block Diagram ..... Insertion
Parts List ..... Separate Volume Insertion

652

No. 20031
Mar. 1988

Safety Precautions

1. The design of this product contains special hardware and may circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).


AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Specifications

AMPLIFIER SECTION

Output power : **60 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007 % total harmonic distortion.**

65 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz (DIN).

65 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.003 % total harmonic distortion.

Total harmonic distortion : 0.003 % at 65 watts (1 kHz 8 ohms)

Intermodulation distortion : 0.007 % at 60 watts

Input sensitivity/impedance

PHONO : 2.5 mV/47 kohms

CD, TAPE 1 PLAY, TAPE 2/VIDEO SOUND PLAY : 220 mV/45 kohms

Recording output level : 220 mV

Frequency response

PHONO (RIAA equalization) : 20 Hz – 20 kHz, +0.5 dB, –0.5 dB

CD, TAPE 1 PLAY, TAPE 2/VIDEO SOUND PLAY : 5 Hz – 50 kHz, +1 dB, –1 dB

S.E.A. graphic equalizer

Center frequencies : 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz

Control range : +10 dB ±1 dB, –10 dB ±1 dB

Signal-to-noise ratio

PHONO	71 dB ('66 IHF) 78 dB ('78 IHF) (Rec out)	66 dB (DIN)
CD, TAPE 1 PLAY, TAPE 2/VIDEO SOUND PLAY	91 dB ('66 IHF) 77 dB ('78 IHF)	67 dB (DIN)

FM TUNER SECTION

	IHF	DIN (For Europe)
Tuning range	87.5 MHz – 108.0 MHz	87.5 MHz – 108.0 MHz
Usable sensitivity	Mono 10.8 dBf (0.95 μV/75 ohms, 1.9 μV/300 ohms)	–
26 dB quieting sensitivity		1.5 μV/75 ohms, 3 μV/300 ohms
50 dB quieting sensitivity	Mono 16.3 dBf (1.8 μV/75 ohms, 3.6 μV/300 ohms)	–
	Stereo 38.3 dBf (22.5 μV/75 ohms, 45 μV/300 ohms)	–
S/N 46 dB stereo sensitivity	–	Stereo 23 μV/75 ohms
Signal-to-noise ratio (at 98 MHz 85 dBf)	Mono 82 dB Stereo 73 dB (IHF-A)	Mono 72 dB Stereo 64 dB (weighted)
Total harmonic distortion (1 kHz)	Mono 0.15% Stereo 0.2 %	Mono 0.1 % Stereo 0.3 %
Frequency response	30 Hz – 15 kHz, +0.5 dB, –3 dB	
Capture ratio	1.5 dB	
Selectivity	60 dB ±400 kHz	55 dB ±300 kHz
Image response ratio	56 dB at 98 MHz	
IF response ratio	85 dB at 98 MHz	
Stereo separation	40 dB at 1 kHz	40 dB at 1 kHz

AM TUNER SECTION

EIA

MW

Tuning range : 522 kHz – 1,629 kHz, Channel space 9 kHz; 530 kHz – 1,630 kHz, Channel space 10 kHz; 530 kHz – 1,710 kHz (For U.S.A. and Canada)

Sensitivity

Loop antenna : 300 μV/m*

External antenna : 30 μV*

Signal-to-noise ratio : 50 dB* (100 mV/m)

Selectivity : 38 dB, ±10 kHz; 35 dB, ±9 kHz*

Image response ratio : 40 dB*

IF response ratio : 60 dB

Total harmonic distortion : 0.5 %* (100 mV/m)

LW (RX-555LBK only)

Tuning range : 144 kHz – 353 kHz

Sensitivity

Loop antenna : 600 μV/m at 245 kHz

External antenna : 100 μV at 245 kHz

Signal to noise ratio (100 mV/m) : 50 dB at 245 kHz

Selectivity : 40 dB ±9 kHz at 245 kHz

Dimensions : 435(W) x 126.3(H) x 331(D) mm (17-3/16" x 5" x 13-1/16")

Weight : 7.6 kg (16.8 lbs.)

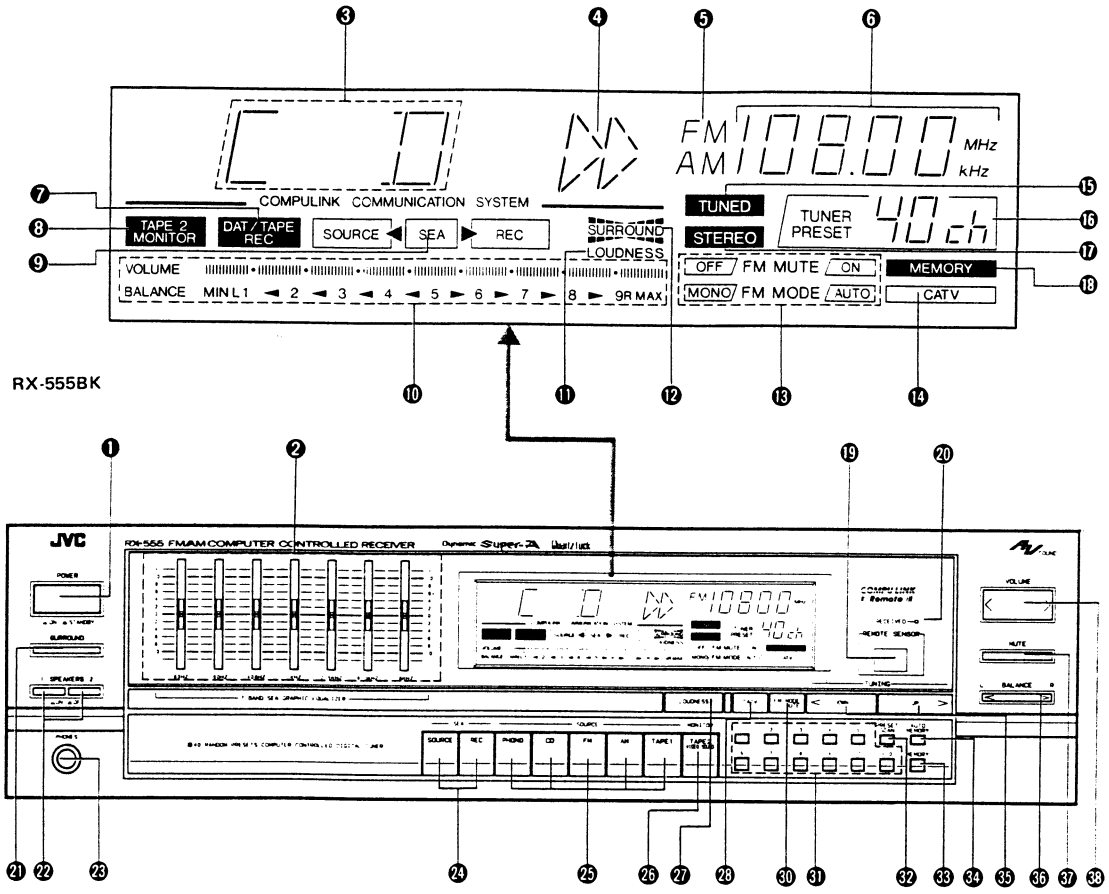
Design and specifications subject to change without notice.

* Measured at 1,000 kHz or 999 kHz.

POWER SPECIFICATIONS

Area	Line Voltage & Frequency	Power Consumption
U.S.A.	AC 120 V~, 60 Hz	250 watts, 320 VA
Canada		
Continental Europe	AC 220 V~, 50 Hz	200 watts
U.K.	AC 240 V~, 50 Hz	340 watts
Australia		
Ather Area	AC 110/120/220/240 V~ selectable, 50/60 Hz	200 watts

Instruction Book



RX-555BK

RX-555LBK

Fig. 17
Abb. 17
Afb. 17

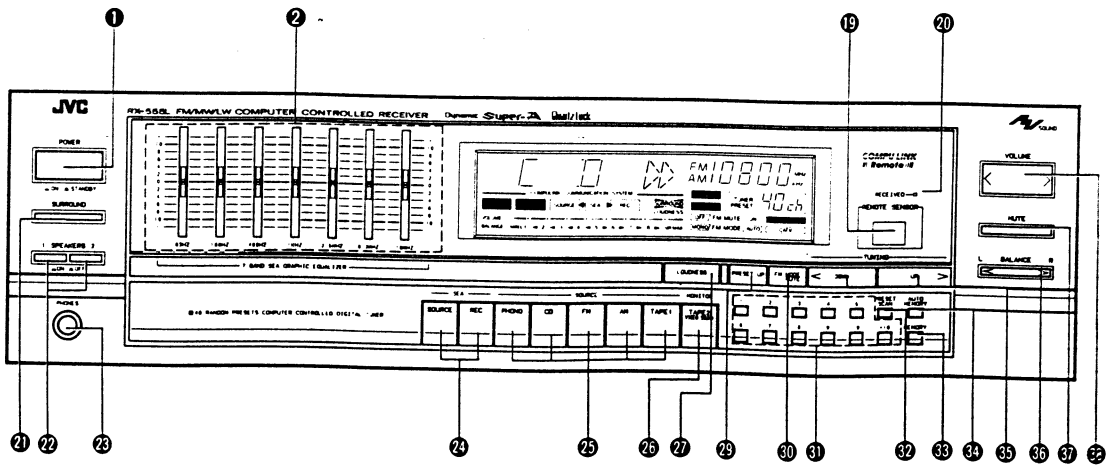


Fig. 18
Abb. 18
Afb. 18

FRONT PANEL

❶ POWER

ON (⏻): Press to turn the power on.

STAND BY (⏻): As long as the power cord is plugged into an AC outlet, the memory circuit operates and the preset stations and the source selector data are not erased. The preset station and source select data will be held in memory even in the case of a power failure or when the power cord is disconnected, if the period power is not applied does not exceed a couple of days.

Note:

- **Even when the POWER button is set to STAND BY, this receiver consumes a small amount of electricity (5 watts). To shut the power off completely, disconnect the power cord.**

❷ SEA LEVEL

The built-in graphic equilizer divides the audio spectrum into seven frequency bands with center frequencies from 63 Hz to 16 kHz at intervals of 4/3 octave.

When the S.E.A. level is set to '0' (center position), frequency response is flat. The response can be varied by ±10 dB by raising or lowering the knob.

63 Hz: Raise to emphasize the very low bass response of organs, drums, and contrabass. It produces stable and solid sound with emphasis and eliminales the unclear sound response of low frequencies with de-emphasis.

160 Hz: Emphasize to obtain a more expanded low sound. De-emphasize to eliminate unclear sound caused by large or nearly empty listening rooms.

400 Hz: This frequency range is the base on which music is constructed. Emphasize to really put a punch in your music.

1 kHz: Most effective in emphasizing or de-emphasizing the human voice. Emphasize to cause the vocalist to be brought to the foreground, or de-emphasize to cause it to recede into the background.

2.5 kHz: This frequency stimulates the human ear. If the music sounds hard or metallic, de-emphasize.

6.3 kHz: Boost to add clarity to winds and strings. This frequency band varies the tonal expression, influencing the subtleties of the music.

16 kHz: Boosting this frequency range properly adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension. This frequency band can also be used to compensate for cartridge response since most moving-magnet cartridges have their resonance peaks in the frequency range from 10 kHz to 20 kHz.

❸ SOURCE OPERATION indicator

This shows the audio signal selected with the source selectors, to be heard or recorded. When the MUTE button is pressed, "MUTE" is displayed. Pressing the button again will release the "MUTE" function and the source indication will be restored. When the MUTE button on the remote control unit is pressed, the display shows "MUTE"; when it is pressed again, "OFF" will be displayed.

When the TAPE 2 button of the remote control unit is pressed, "ON" or "OFF" is shown: when the 10-KEY keypad is used "1 – 10, 10+ and 0" are shown in the display.

❹ Operation symbol indicators

When any of the ▶, ■, ⏮, ⏭, ⏸, ⏪ and ⏩ buttons of the remote control unit is pressed, the corresponding indicator lights. (See page 18.)

❺ FM/AM indicator

"FM" is displayed during FM reception and "AM" during AM reception.

❻ Frequency indicator

The current frequency is displayed digitally. Four digits (kHz) are displayed during AM reception, five digits (MHz) (for Europe, U.K. Australia, and other countries) or four digits (MHz) (for U.S.A. and Canada) are displayed during FM reception.

❼ DAT/TAPE REC indicator

This indicator lights when the DAT (Digital Audio Tape) deck or cassette deck enters the record mode under the control of the remote control unit.

❽ TAPE 2 MONITOR indicator

When the TAPE 2/VIDEO SOUND button has been pressed, this indicator lights.

❾ SEA indicator

When the SEA SOURCE button is pressed, SOURCE lights to show that the S.E.A. is processing the signals fed to the speakers or headphones.

When the SEA REC button is pressed, REC lights to show that the S.E.A. is processing the signals output from the REC OUT terminals.

❿ VOLUME/BALANCE indicator

This indicates VOLUME or BALANCE.

Normally, "VOLUME" lights and the indicator shows the level of sound supplied to the speakers or headphones. Whenever the BALANCE button is pressed, "BALANCE", "L" and "R" and the center bar of the indicator light and the balance between the right and left speakers is displayed.

The display remains in the BALANCE indication mode for about five seconds, and then returns to the VOLUME indication mode.

⓫ LOUDNESS indicator

When the LOUDNESS button has been pressed, this indicator lights.

⓬ SURROUND indicator

This indicator lights when the SURROUND button is pressed ON.

⓭ FM MODE/FM MUTE indicators

These indicators show AUTO/ON or MONO/OFF according to the setting of the FM MODE/MUTE button.

⓮ CATV indicator (only for the U.S.A. and Canada)

When the CATV button is pressed to on, this indicator lights to show that the receiver is set to receive CATV programs.

⓯ TUNED indicator

When a broadcast is received correctly, this indicator lights.

⓰ PRESET CHANNEL display

This shows the preset channel selected by the 10-key keypad, for a total of 40 FM and AM stations. It also shows the station number while programming or monitoring programmed broadcasts.

⓱ STEREO indicator

When an FM stereo broadcast is being received, this indicator lights. When the MODE indicator shows "MONO" it will not light even if a stereo FM broadcast is being received. If you wish to receive the broadcast in stereo, press the FM MODE/MUTE button so that "AUTO" is shown.

⓲ MEMORY indicator

Lights for about five seconds when the MEMORY button is pressed to on, or for one second when a frequency is stored in memory during auto memory operation.

⓳ REMOTE SENSOR

This window receives signals from the remote control unit. Do not obstruct it.

⓴ RECEIVED indicator

This indicator lights when information is being received from the remote control unit.

㉑ SURROUND

When this button is pressed while listening to a stereo source, the sound field will be expanded.

Notes:

- **However, when the audio source is monaural, no surround effect will be obtained.**
- **Sound from the surround speakers cannot be recorded on the tape.**

㉒ SPEAKERS-1/SPEAKERS-2

Press to turn the speakers connected to the SPEAKERS 1 and/or SPEAKERS 2 terminals on and off.

When the surround speakers are connected to the SPEAKERS 2 terminals, a 4-channel surround sound field will be obtained.

Notes:

- **When speakers are connected to only one set of SPEAKERS terminals, press only the SPEAKERS button of the system connected; if both buttons are pressed, sound will not be heard from either speaker system. When two pairs of speakers are connected and either or both the SPEAKERS buttons are pressed, sound will be heard from the speakers selected.**
- **When the surround speakers behind the listening position are located in their optimum positions, the most effective surround sound effect will be obtained.**
- **When using the SPEAKER 2 speakers by themselves, set the SURROUND SPEAKER select switch on the rear panel to SPEAKER 2. If it is set to SURROUND, sound will not be heard from the SPEAKER 2 speakers.**
- **When listening to surround sound, the SPEAKER 1 speakers are the front channel speakers and the SPEAKER 2 speakers are the surround speakers.**

㉓ Headphone jack (PHONES)

Plug stereo headphones into this jack for private listening and monitoring when recording. If you want to listen to sound from the headphones alone, press the SPEAKERS buttons to OFF.

㉔ **SEA**

SOURCE: Press this button to listen to the S.E.A.-compensated sound.

REC: Press this button to record S.E.A.-compensated signals.

Note:

- **S.E.A.-compensated sound is not available to the TAPE 2 REC terminal.**

㉕ **SOURCE**

PHONO

Press this button to listen to a turntable connected to the PHONO terminals.

CD

Press this button to listen to a compact disc player connected to the CD terminals.

FM

Press this button to listen to an FM broadcast.

AM (RX-555BK), AM (MW/LW) (RX-555LBK)

Press this button to listen to an AM broadcast.

TAPE 1

Press this button to listen to a tape deck connected to the TAPE 1 terminals.

㉖ **MONITOR**

TAPE 2/VIDEO SOUND

Press this button to listen to a tape deck connected to the TAPE 2/VIDEO SOUND terminals. If this button is pressed again, it will release this function so that the source selected by another source select button can be heard.

Note:

- **Press this button to monitor the recorded sound (to listen to the sound that has just been recorded) when using a three-head tape deck.**

㉗ **LOUDNESS**

Press this button to compensate for the ear's lower sensitivity at low listening levels.

㉘ **CATV (Only for the U.S.A. and Canada)**

Use this button when used with the separate CATV Antenna Control Unit. When connecting the CATV cable to receive CATV programs or if the FM antenna is connected to "CATV IN" of the CATV Antenna Control Unit for the reception of FM broadcast, push this button so that the CATV indicator lights. Even when the CATV indicator is not lit, you can listen to broadcasts received by the antenna connected to the EXT. FM IN terminal of the CATV antenna control unit. CATV button functions can also be stored in each preset station together with the frequency.

㉙ **PRESET UP (except for the U.S.A. and Canada)**

Press this button to advance to the next preset channel. When this button is pressed, the preset channel changes from lower to higher channel numbers. When it is kept depressed, the channel number changes continuously. When it reaches "40", it returns to "1".

㉚ **FM MODE/MUTE**

For normal FM reception and automatic elimination of interstation noise, press this button so that FM MODE "AUTO" and FM MUTE "ON" light in the display.

When receiving a weak or noisy FM stereo broadcast, press this button so that "MONO" (FM MODE) and "OFF" (FM MUTE) light; the broadcast will be heard in mono but reception will be clearer.

㉛ **TUNER 10-KEY (1 to 10 , +10)**

Up to 40 FM and AM broadcast frequencies can be preset in this receiver's memory. After presetting, select the desired channel by inputting the preset channel number with these buttons. When selecting a preset channel numbered "1" to "10", just press the corresponding numeric button. When selecting preset channels numbered "11" or above, first press the +10 button the required number of times, then press a button from 1 to 10 .

For example, to select preset channel 35, first press the +10 key three times, then press 5 . Or, to select preset channel "40", press +10 key three times, then 10 .

When the desired preset channel is recalled, the display shows the preset channel number and the corresponding frequency.

㉜ **PRESET SCAN**

This lets you scan preset channels to find a broadcast you want to listen to. When the PRESET SCAN button is pressed, preset scanning starts. If you have tuned to the current station using the 10 KEY keypad (or PRESET UP button, not provided on models for U.S.A. and Canada), the tuner scans to the next higher preset channel and the broadcast is received for about 4 seconds with the preset channel number blinking. It then tunes to higher preset channels in sequence. When it reaches the top preset channel, it moves to the bottom channel and scans up until it reaches the original channel, at which point it stops. If you have tuned to the current station in any other way, scanning will start from preset channel 1 and finished after preset channel 40 has been received, then the broadcast being received before preset scanning was started will be heard again. When you hear your required broadcast, press the PRESET SCAN button again to stop preset scanning.

㉝ **MEMORY**

Press this button, and the MEMORY indicator will light to show that it is ready to receive a memory setting. Pressing the station select button while the MEMORY indicator is lit (for about five seconds) stores the station in the specified memory. At this time, the channel number is shown in the display.

㉞ **AUTO MEMORY**

Press this button and one of the PRESET CHANNEL numeric keys to scan and preset to broadcasts automatically. Starting from the frequency being displayed, the tuner will scan to higher frequencies until a broadcast is received. The TUNED indicator will light and the channel number you have pressed earlier will flicker for 3 seconds. If you do not wish to store this frequency in memory, press this button within 4 seconds, and scanning will start again. Otherwise, the MEMORY indicator and channel number will light together and the frequency will be stored in the channel memory, after which up-scanning will continue. This process continues until the preset channel with the highest frequency is stored in memory. If the frequency reaches its upper limit, the auto memory function stops and the channel number in the memory of which the highest frequency is stored will be shown. If the upper limit of the frequency band is reached before this happens, the upper limit frequency is shown. Otherwise, when this process ends, the last frequency tuned to and its corresponding channel number are displayed.

Note:

- **To cancel the auto memory function, press any of the buttons in the tuner section other than the AUTO MEMORY button.**

㉟ **TUNING UP/DOWN**

DOWN (<): Press this button to tune to a lower frequency.

UP (>): Press this button to tune to a higher frequency.

Holding either button pressed for more than 1 second and then releasing it starts auto tuning; when a broadcast is received, tuning will stop. If either button is held down, scanning continues even when a broadcast is received. In auto tuning, pressing either button stops scanning. During tuning toward higher frequencies, when the upper limit frequency (108.0 MHz for FM) is reached, the frequency will change to the lower limit (87.5 MHz for FM) and then auto tuning restarts in the direction of increasing frequency. During tuning toward lower frequencies, when the lower limit (87.5 MHz for FM) is reached, the frequency will change to the upper limit (108.0 MHz for FM) and auto tuning restarts in the direction of lower frequencies. The same operation is performed in AM tuning.

RX-555BK: Each time this button is pressed, the FM frequency will change in 50 kHz or 100 kHz steps, and the AM frequency in 9 kHz or 10 kHz steps.

RX-555LBK: Each time this button is pressed, the FM frequency will change in 50 kHz steps, the MW frequency in 9 kHz steps and the LW frequency in 1 kHz steps. This unit is designed to switch between the MW and LW bands during tuning; when tuning to LW frequencies, after scanning to the top LW frequency (353 kHz), the unit tunes to the bottom MW frequency (522 kHz), and vice versa.

Channel Spacing

AM channel spacing knob is provided on the rear panel to select between 9 kHz or 10 kHz steps depending on the area in which the receiver is used.

Before changing the AM channel spacing, be sure to turn the power OFF, then wait for several seconds before switching over the spacing switch. Refer to Fig. 19.

(Not provided on units for U.S.A., Canada, Australia, United Kingdom and continental Europe.)

Area \ Band	FM	AM (MW)	AM (LW)
U.S.A., Canada	100 kHz	10 kHz	-
Europe, U.K.	50 kHz	9 kHz	1 kHz
Europe, Australia	50 kHz	9 kHz	-
Other areas	50 kHz	9 kHz* or 10 kHz	-

Note: *Preset at the factory.

Example

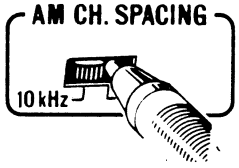


Fig. 19

To switch over, use the tip of a ball-point pen as shown in Fig. 19.

㊱ BALANCE (L/R)
Use to adjust the balance between the left and right speakers. Tap the L side to shift the balance to the left by one step and the R side to shift to the right. Holding the button pressed changes the balance continuously. The BALANCE indicator in the display shows the current balance setting.

㊲ MUTE
Press this button and the MUTE indicator will light and the sound will be instantaneously muted. To return the volume to its original level, press this button again, or press the BALANCE or VOLUME button.

㊳ VOLUME (UP/DOWN)
Adjust the volume of speakers or headphones. Press the UP (>) button once to increase the volume by one step, and the DOWN (<) button once to decrease it by one step; this level is shown by the VOLUME indicator. Holding down one of these buttons will cause the volume to rise or fall continuously.

OPERATION

Before use
Connect each component correctly, and then plug the power cord into an AC wall outlet.

Basic operation
1. Press the POWER button to on.
2. Select the speaker system with the SPEAKERS buttons.
   When connecting the SURROUND speakers to the SPEAKER 2 terminals, set the SURROUND SPEAKER select switch on the rear panel to SURROUND.
3. Perform the following steps as required.
4. Adjust the volume and balance to your preference.
5. Use the SEA knobs to obtain the required tone.

Presetting to selected stations (FM or AM)
There are two ways to preset stations using the TUNING buttons 1. Auto tuning/manual tuning, 2. Auto memory function.

1 Auto tuning/manual tuning
1. Press the FM or AM button.
2. Tune to a desired station by pressing the TUNING UP or DOWN button (for auto tuning) or by tapping it (for manual tuning).
3. Press the MEMORY button so that the MEMORY indicator lights.
4. Press one of the 10 KEY numeric keys.
5. Perform the same pre-tuning procedure (steps 2, 3, 4) for any other channels. Pre-tuning is possible for up to 40 stations (for FM and AM).

2. How to operate the auto memory function
(Refer to ㉛ AUTO MEMORY button on page 14.)
1. Press the FM or AM button.
2. Tune to the frequency from which you wish the AUTO MEMORY function to start scanning.
3. Press the AUTO MEMORY button and one of the 10-KEY buttons. The MEMORY indicator flickers and auto scanning starts from the displayed frequency towards higher frequencies. When a broadcast is received, the TUNED indicator lights and the selected station number flashes. If you do not press the AUTO MEMORY button again, the MEMORY indicator and the channel number light together and the frequency is stored in memory. This continues until the preset channel with the highest number has a frequency in its memory or auto scanning reaches the highest frequency.

Listening to broadcasts
1. Press the FM or AM button
2. Press the desired TUNER 10 KEY button to listen to any channel. The channel number corresponding to the button pressed is shown in the display.

Notes:
- **Adjust the antenna so that the TUNED indicator is lit.**
- **When FM broadcast signals are too weak to be received, press the FM MODE/MUTE button to display "MONO"/"OFF".**
- **For the reception of AM broadcasts, set the loop antenna in the position where reception is best.**
- **Before listening to broadcasts, first preset the stations correctly; if they are not pre-tuned accurately, reception will be noisy.**

Listening to records
1. Press the PHONO button so that the PHONO indicator lights.
2. Operate the turntable as described in its operation manual.

Notes:
- **Use a turntable with an MM (moving magnet) cartridge.**
- **If your turntable has a separate ground lead, connect it to the GND terminal.**

Listening to CD
1. Press the CD button so that the CD indicator lights.
2. Operate the CD player as described in its operation manual.

Listening to tapes
1. Press the TAPE 1 button so that the TAPE 1 indicator lights.
2. Operate the tape deck for playback as described in its operation manual.

Listening to VIDEO SOUND
1. Press the TAPE 2/VIDEO SOUND button so that the TAPE 2 MONITOR indicator lights.
2. Operate the video unit as described in its operation manual.

Note:
- **Connect the audio signal cords of the video unit to the TAPE 2/VIDEO SOUND terminals of this unit.**

Recording tapes
Recording from records
1. Press the PHONO button so that the PHONO indicator lights.
2. Operate the turntable.
3. Operate the tape deck for recording.

Recording from other sources (AM, FM, CD, and VCR)
Press the button corresponding to the source to be recorded. All other operations are identical to those when recording from records.

Notes:
- **During synchronized recording, the source is locked to CD or PHONO to avoid stopping or changing to another source accidentally. During synchronized recording, monitoring is not possible.**
- **When recording or dubbing tapes, the source sound will be heard from the speakers or headphones (not the sound being recorded on the tape).**

If you are using a three-head tape deck without a COMPU LINK-1/SYNCHRO terminal:
1. Connect the tape deck to the TAPE 2/VIDEO SOUND terminals.
2. You can monitor the recorded sound while recording by pressing the TAPE 2/VIDEO SOUND button.

Using stereo headphones
Stereo headphones can be plugged into the front panel jack. The signal from this jack is independent of the speakers.
1. Plug stereo headphones into this jack for private listening and recording monitoring. If you want to listen to sound from the headphones alone, press the SPEAKER buttons to OFF (▟).
2. To listen through headphones while listening to the speakers, press the appropriate SPEAKER buttons to ON (▬).

Note:
- **Pull out the headphone plug when not in use.**

Dubbing tapes
To dub tapes, connect to two tape decks. One for playback and the other for recording. You can dub from the tape deck (connected to the TAPE 2/VIDEO SOUND terminals) onto the other tape deck (connected to the TAPE 1 REC terminals), and vice versa.

Dubbing from Tape 1 to Tape 2
1. Activate the TAPE 1 button and the TAPE 1 indicator lights.
2. Operate the tape deck (connected to the TAPE 1 PLAY terminals) for playback.
3. Operate the tape deck (connected to the TAPE 2/VIDEO SOUND terminals) for recording.

Dubbing from Tape 2 to Tape 1
1. Activate the TAPE 2/VIDEO SOUND button and the TAPE 2 MONITOR indicator lights.
2. Operate the tape deck (connected to the TAPE 2/VIDEO SOUND terminals) for playback.
3. Operate the tape deck (connected to the TAPE 1 REC terminals) for recording.

Notes:
- **When dubbing from the tape deck connected to the TAPE 2/VIDEO SOUND terminals onto another tape deck, it is possible to listen to sound from another source at the same time. However, "TAPE 1" cannot be selected.**
- **While playing back a tape on the tape deck (connected to the TAPE 2/VIDEO SOUND terminals), you can not record other source sounds onto the component (connected to the TAPE 1 REC terminals).**
- **When recording or dubbing tapes, the source sound will be heard from the speakers or headphones (not the sound being recorded on the tape).**

How to operate the monitor while recording on the tape deck
1. Connect the 3-head tape deck to the TAPE 2/VIDEO SOUND terminals.

2. Make sure to connect the signal cords to the PLAY and REC terminals, and remove the remote cable connected to the tape deck.
3. Select a source from which you want to record by depressing the SOURCE SELECTOR button on this unit.
4. Operate the tape deck for recording as described in its operation manual.
5. By playing the source component, you can record on the tape deck.
6. While recording on the tape deck the recorded sound can be heard by depressing the TAPE 2/VIDEO SOUND button on this unit or that of the remote control unit.

REMOTE CONTROL UNIT (RM-SR555)

Refer to page 53 and keep it open.

❶ PLAY MODE
Press this button for changeover to CD AUTO CHANGER.
CONTINUE: Press this button to listen to the compact discs loaded in the CD magazine in the loaded (numerical) order regardless of the setting for programmed playback.
PRGM: Press this button to listen to the compact discs in programmed order.
MAG. PRGM: Press this button to listen to the compact discs in the order of the program previously stored for each magazine.
When any PLAY MODE button is pressed, "MODE" lights in the display.

❷ CD CHANGER
This button is for use in specifying a disc or track by its number. When so specifying the No. of a particular disc or track, the 10 KEY button ❼ must be switched over to serve the changer in advance.
DISC: To specify a disc No., press this DISC button first and press 10 KEY buttons ❼ (1 – 7/P corresponding to the No. When the 10-KEY buttons are pressed, – 1 – . . . – P – are shown in the display.
TRACK: To specify a track No., press this TRACK button first and press 10 KEY buttons ❼ (1 – 10 , +10 , 0) corresponding to the No. When the 10-KEY buttons are pressed, 1 . . . 10, 10+, 0 are shown in the display.

Notes:
- **For the proper method of using 10 KEY buttons, see page 18.**
- **To play a compact disc, press ▶ button ⓭.**
- **For details on the CD auto changer, consult its instruction book.**

❸ FM
Press this button to listen to an FM broadcast.

❹ AM
Press this button to listen to an AM broadcast.

❺ VCR CH
Press this button then use the 10 KEY button ❼ for VCR (1 – 9 , 0).

❻ TV CH
Press this button then use the 10 KEY buttons ❼ (1 – 9 , 0) for TV.

Note:
- **Read the instruction books of the TV and VCR carefully before operating them using the remote control unit.**

❼ 10 KEY (1 – 10 , 0 , +10)
These buttons are for directly accessing the FM/AM presets, or various TV channels, also for selecting the CD track No. or the CD changer disc No. and also the 10 KEY operation for selecting the DAT's piece No.
FM/AM/TV/VCR: When the FM or AM button has been pressed, these buttons can be used to select the preset station by pressing the preset station number. For example, to select preset station number 1, press the button 1 .
When the TV button has been pressed, these buttons can be used to select a TV channel.

Note:
- **When using the 10-KEY keypad for TV and VCR tuning, the RECEIVED indicator does not light and numeric indications are not shown in the display.**

CD or DAT: When the 10 KEY button has been pressed, use this button to assign the track numbers (1 – 10) for a disc which is to be played or programmed. To assign a track number over 10, use a combination of the +10 button and numeric button.

(Examples)
5: Press numeric button 5 .
10: Press numeric button 10 .
17: Press the +10 button once and numeric button 7 .
20: Press the +10 button once and numeric button 10 .
25: Press the +10 button twice and numeric button 5 .

Notes:
- **In the case of some CD players or DAT decks, only the 10 numeric buttons may be used to set track numbers. When entering single-digit numbers, press the number, such as " 3 " and wait for 3 seconds. For double-digit numbers, such as "23", press 2 , then 3 .**
- **For details, consult instruction book of CD player and DAT deck.**

❽ SEA SOURCE
Press this button to listen to the source with S.E.A. compensation. When the SEA SOURCE button is pressed, "ON" is shown and "SOURCE" lights; when it is pressed again, "OFF" is shown and "SOURCE" goes out.

❾ SURROUND ON/OFF
Press this button to switch the SURROUND function "ON" and "OFF". When pressing the SURROUND ON/OFF button once, "ON" and SURROUND light in the display; when pressing it again, "OFF" is shown and SURROUND goes out.

❿ PRESET CHANNEL
FM/AM/TV/VCR: When the FM , AM , TVCH , or VCRCH button has been pressed, a preset station or TV channel can be selected by using these buttons to sequentially scan the available stations or channels in either direction.

⓫ SURROUND CONTROL
In the case of SURROUND processor (optional) corresponding COMPU LINK of JVC, possible to control the following functions. Connect surround processor (optional) to TAPE 2 terminal.
MODE: Press this button to select a mode desired to suit the source of sound, in order to produce the desired surround effect.
Selective modes: SURROUND SELECTOR (BYPASS, DOLBY SURROUND, HALL SURROUND, and SIMULATED SURROUND, etc.) can be controlled.
SURROUND VOLUME + , − : These buttons are to adjust the output levels of the front and surround speakers, to enhance the surround effect.
For detail, consult the instruction book for the surround processor.

⓬ PHONO
PHONO (▶): Press this button to start playing a record on the turntable.
STOP (■): Press this button to stop playing a record.

⓭ CD
CD (▶): Press this button to start playing a compact disc.
STOP (■): Press this button to stop playing a compact disc.
AUTO SEARCH:
(⏮): Press this button to move the pickup to the beginning of the current tune while it is being played. Then, each time the button is pressed, the pickup will skip to the beginning of the previous tune. Keeping this button pressed causes the pickup to skip back continuously.
(⏭): Press this button to move the pickup to the beginning of the next tune. After this, each time this button is pressed, the pickup moves forward by one tune. Keeping this button pressed causes the pickup to skip forward continuously.
10 KEY: Press this button to use the 10 KEY buttons ❼ for selecting the CD track No.

Note:
- **When the ▶ , ■ , ⏮ and ⏭ buttons are pressed, the corresponding symbol lights on the display.**

⓮ TAPE 1
TAPE 1 (▶): Press this button to start playing a tape in the cassette deck.
STOP (■): Press this button to stop playing the cassette deck.
MUSIC SCAN:
⏮ : Press this button to select the tune by fast-winding the tape from right to left.
⏭ : Press this button to select the tune by fast-winding the tape from left to right.
DIRECTION ◀▮▶ : Press this button to change the direction of tape travel.

Note:
- **When the ▶ , ■ , ⏮ and ⏭ buttons are pressed, the corresponding symbol lights on the display.**

⓯ TAPE 2
Press this button to listen to the source connected to the TAPE 2 terminals and press it again to disengage.

Notes:
- **When the Tape 2 button is pressed, "ON" is shown and TAPE 2 MONITOR lights; when it is pressed again, "OFF" is shown and TAPE 2 goes out.**
- **By operating the remote control unit, you can select the receiver's "TAPE 2" source, but a cassette recorder connected to the "TAPE 2" terminals will not start playing. To play a cassette recorder connected to the TAPE 2 terminals, press its PLAY button.**

⓰ DAT
DAT (▶): Press this button to start a digital audio tape.
STOP (■): Press this button to stop a digital audio tape.
AUTO SEARCH (⏮ , ⏭)
⏮ : Press this button to select the beginning of the current tune.
⏭ : Press this button to select the beginning of the next tune.

Notes:
- **Connect a DAT deck to the TAPE 2/ VIDEO SOUND terminals of the receiver.**
- **When operating the DAT deck, press DAT operation button ⑯ and CONTROL DAT buttons ⑰ and ⑱ after pressing TAPE 2 button ⑮ .**

10 KEY: Press this button to use the 10 KEY buttons ⑦ for selecting the DAT music No.

⑰ CONTROL

VCR: Press this button to operate the VCR connected to the VCR terminals.
TAPE 1: Press this button to operate the cassette deck connected to TAPE 1 terminals.
DAT: Press this button to operate the digital audio tape deck connected to TAPE 2/ VIDEO SOUND terminals.

Notes:
- **Press the TAPE 2/VIDEO SOUND button to listen to a DAT.**
- **How to control JVC COMPU LINK cassette deck**
  1. **Possible to control only PLAY and STOP in the case of soft logic deck.**
  2. **Possible to control all in the case of full logic deck.**
- **For more details, refer the instruction book of the cassette deck.**

⑱ TAPE 1/VCR/DAT CONTROL

PAUSE/STILL (⏸): Press this button to pause during playback or recording. To release this function, press the PLAY button.
STOP (■): Press this button to stop operation.
REC (●): Press the PLAY button while pressing this button for recording.
(⏪): For the cassette deck or DAT deck: Press this button to quickly wind the tape from the right to left reel.
For the VCR: Press this button to take the VCR from the stop mode to the rewind mode. During playback, press this button for high-speed playback in the reverse direction (Shuttle search).
PLAY (▶): Press this button to play a tape.
(⏩): For the cassette deck or DAT deck: Press this button to quickly wind the tape from the left to right reel.
For the VCR: Press this button to take the VCR from the stop mode to the fast forward mode. During playback, press this button for high-speed playback in the forward direction (Shuttle search).

Note:
- **The symbols corresponding to buttons ⏸ , ■ , ⏪ and ⏩ will be shown in the display. Refer to page 18. These are not shown in the case of a VCR.**

⑲ MUTE

Press this button to instantly mute the sound. To return the volume to its original level, press this button again, or press the BALANCE or VOLUME button.

Note:
- **The operating indications of VOL "+" or "–" and "MUTE", "OFF" will be shown in the display.**

⑳ VOLUME (⊖, ⊕)

Press the ⊕ button to increase the volume and the ⊖ button to decrease it.

Batteries

- **How to install batteries (Fig. 21)**

1. Slide the cover of the battery case in the direction of the arrow to remove it.
2. Install batteries (AA, SUM-3, R6: 1.5 V), with the correct polarity.
3. Re-install the cover of the battery case.

- **Battery life**
  The batteries can be used for about one year.
- **Battery replacement time**
  When the distance from which the remote control unit functions begins to decrease, replace both batteries.

Notes:
- **When the remote control is operated too near the receiver during AM reception, it may cause interference.**
- **The remote control can normally be used up to about 8 m (26 ft) from the receiver.**

OPERATION WITH THE REMOTE CONTROL UNIT (RM-SR555)

Refer to page 53 for the diagrams.

- A "COMPU LINK" component (such as an amplifier, receiver, tuner, CD player, cassette deck, turntable or DAT deck has COMPU LINK-1/SYNCHRO terminals on its rear panel.
- The RM-SR555 Remote Control Unit allows the operation of "COMPU LINK" components which are connected to the receiver, without your having to press the receiver's source selector buttons.
- For example, when the CD player PLAY button on the remote control unit is pressed, the CD player starts playing automatically while the previous program source component stops automatically.
- Point the RM-SR555 at the REMOTE SENSOR window of the receiver (RX-555BK/ LBK) when using it.
  If the signal from the RM-SR555 is received by two or more components simultaneously, the required operation may be slightly delayed.
  If this happens, keep the buttons depressed until the required components begin operation.
  When the components are too far apart, it may be difficult to detect signals from the RM-SR555.
  In this case, point the RM-SR555 at the remote sensor of the component(s) which do not work, and press the button(s) again.
- Since the RM-SR555 is not provided with a memory function, programming the tuner or CD player, etc. must be performed at the receiver.
- To switch the power on, press the POWER button of the receiver.

To listen to radio broadcast, FM or AM (Fig. 22)

1. ❸ FM or ❹ AM : Pressing this button (FM or AM) sets these buttons in FM or AM mode, 10 KEY, 1 – 10 , +10 .
2. ⑦ 10 KEY (1 – 10, +10),: Of the preset channels, programmed in the tuner, check the number of the channel of your choice, and press the button corresponding to that channel number. Examples:
   Channels 1 – 10:
   For Channel 5, press numeric button 5 .
   For Channel 10, press numeric button 10 .
   Channel 17: Press +10 button once and then numeric button 7 .
   Channel 20: Press +10 button once and then numeric button 0 .
   Channel 25: Press +10 button twice and then numeric button 5 .
3. ⑩ PRESET CHANNEL ⊖ ⊕ : These buttons are for incrementing or decrementing the number. That is, selecting the next channel above or below the currently selected channel.

To listen to a VCR (Fig. 25, 27)
- Press the POWER button of the VCR to ON.
- Point the top (transmission window) of the RM-SR555 at the remote sensor.

1. Press the VCR CH button ❺ .

   Note:
   - **The 10 KEY, PRESET CHANNEL ⊖, ⊕ buttons are set to the VCR mode automatically.**

2. 10 KEY (1 – 9 , 0) (When you select VCR with the remote control):
   Press the required button to select the VCR channel.
   Examples:
   For channel 5: Press numeric button 5 .
   For channel 10: Press button 1 , then button 0 .
   For channel 25: Press button 2 , the button 5 .
3. ⑩ PRESET CHANNEL ⊖ , ⊕ : To move to a lower or higher channel. Each time you press the button, the channel below or above the current channel is selected.
4. After pressing CONTROL VCR button ⑰ , press button ⑱.
   - PLAY (▶): Press this button to play a tape. Even when the PLAY button for the VCR is pressed, the unit selected previously will not stop. To stop it, press the corresponding STOP button.
   - ⏪ or ⏩ : Press these buttons to rewind/fast forward tape; when fully wound, the auto play and auto rewind functions of the VCR will be activated.
   - REC (●): Press the PLAY button while pressing this button to start recording.
   - PAUSE/STILL (⏸): Press this button to pause during playback or recording. To release this function, press the PLAY button.
   - STOP (■): Press this button to stop operation.

To listen to TV sound (Fig. 25, 27)
Turn the power of each component ON.

1. TVCH ❻ : When this button is pressed, the TV mode is engaged.

   Note:
   - **The 10 KEY, PRESET CHANNEL ⊖, ⊕ buttons are automatically set to the TV mode.**

2. ❼ 10 KEY (1 – 9 , 0) (When you select TV on the remote control):
   Press the button corresponding to the required TV channel.
   Examples:
   For channel 5: Press numeric button 5 .
   For channel 10: Press button 10 , then button 0 .
   For channel 25: Press button 2 , then button 5 .
3. ❿ PRESET CHANNEL ⊟ , ⊞ : To tune to lower and higher channels. Each time you press the button, the channel below or above the current channel will be received.

To play turntable or cassette deck (Fig. 26)

1. ⓬ PHONO ▶ or ⓮ TAPE 1 ▶ : Pressing the button switches the source selector automatically to "PHONO" or "TAPE 1", depending on the button you press, and playback starts.
2. ⓬ STOP ■ or ⓮ STOP ■ : Pressing this button stops the phono or cassette deck.
3. ⓮ MUSIC SCAN ⏮ : Press this button to perform music scanning with the tape running to the left.
   ⓮ MUSIC SCAN ⏭ : Press this button to perform music scanning with the tape running to the right.
   • Each time these are pressed, the next tune is accessed; when they are kept pressed, the tape is fast-wound in the direction shown.
4. ⓮ DIRECTION ◀▶ : Press this button to change the direction in which the tape is running.

To play CD or DAT (Fig. 23)

⓭ CD ▶ or ⓰ DAT ▶ : To select a track by number on the CD or a program by the number on the DAT deck, press this button first and then press the ❼ 10 KEY 1 – 10 , +10 , 0 buttons for the selected number.

1. ⓭ CD ▶ or ⓰ DAT ▶ : Pressing this button commences play back.

   Note:
   • **To listen to music with a DAT deck connected to TAPE 2/VIDEO SOUND terminal, press ⓯ TAPE 2 button first and press ⓰ DAT ▶ button.**
2. ⓭ STOP ■ or ⓰ STOP ■ : Press this button to stop the performance.
3. AUTO SEARCH ⏮ : Pressing this button interrupts the selection being played and returns to the start of that selection.
   AUTO SEARCH ⏭ : Pressing this button interrupts the music and brings the CD or tape to the start of the next selection.

   Note:
   • **Press once to advance to the next selection. For fast forward, keep pressing this button.**

CD AUTO CHANGER operation (Fig. 24)

1 PLAY MODE

CONTINUE : Pressing this button plays the discs in the magazine sequentially, starting with Disc 1, regardless of the program.
PRGM : Press this button to play the discs in programmed sequence.
MAG. PRGM : Set your magazine in place and press this button: the discs will be played back in the sequence programmed in the magazine.
Function of MAG. PRGM isn't operated in the case of some CD players then consult instruction book of CD auto changer.

2 CD CHANGING

Pressing DISC or TRACK button assigns 10 KEY ❼ for use in CD changing.
DISC + 10 KEY ❼ : Press this key to specify a disc by its number in the magazine. In the case, press DISC button before operating 10 key function.
TRACK +10 KEY ❼ : Press this key to specify a track by its number in the magazine. In the case, press TRACK ❷ button before operating 10 key function.

Notes:
• **To understand 10 KEY operation, refer to Page 16**
• **For detail, consult the instruction book of the CD auto changer.**

SURROUND CONTROL

This control is for the surround processor (optional) connected to TAPE 2/VIDEO SOUND terminal. For surround control, press TAPE 2 button ⓯ first and then the following:

⓫ MODE : Press this button to shift the surround processor's selector from its current mode to another.

⓫ SURROUND VOLUME ⊟ ⊞ : For raising or lowering the output levels of the front and surround speakers, in order to enhance the surround effect. Pressing ⊟ button lowers and pressing ⊞ button raises the volume.

Notes:
• **For detail, consult the instruction book of the surround processor.**
• **When connecting the cassette deck to the TAPE 2 terminal, do not connect the remote cable.**
• **When selecting the component connected to the "TAPE 2/VIDEO SOUND" terminals, press the TAPE 2 button.**
  If a cassette deck is connected to these terminals, since tape playback cannot be started with the remote control button, press the PLAY button of the cassette deck.

CAUTIONS:
• **When playing a DAT deck, connect it to the "TAPE 2/VIDEO SOUND" terminals. (Also connect the remote cable between the DAT deck and this unit.)**
  To start, press the TAPE 2 button then press the DAT CONTROL button.
• **Even if the source is changed from the DAT deck to other equipment while the DAT deck is playing, the DAT deck will not stop operation. The opposite is also the case; when the source is changed from other equipment to the DAT deck, the other equipment will not stop operation.**

Example of indicated display
(The indicators of each source and the REC indicator will light when selected from the remote control unit.)

Symbol	▶ ⏸ ■ ◀◀ ▶▶ ⏮ ⏭
Indication	
"Record-pause" mode	DAT / TAPE REC
During "recording"	DAT / TAPE REC

COMPU LINK
Remote
Control System

COMPU LINK REMOTE CONTROL SYSTEM

The COMPU LINK REMOTE CONTROL SYSTEM was developed by JVC. With it, not only you can control each COMPU LINK component from the remote control unit, but also perform the following convenient operations.

Automatic source selection

If the attached remote cable is used to connect this unit to other JVC components with COMPU LINK-1/SYNCHRO terminals, sources can be switched with just one touch of this unit's source selector buttons and the corresponding component will start to play automatically. The source select button of the remote control unit or the corresponding component's PLAY button can also be used.

When switching from one component to another, such as a cassette deck, turntable or CD player, the previous component will stop playing after about five seconds.

Synchronized recording

Synchronized recording refers to the process whereby the cassette deck automatically starts recording in synchronization with the CD player or turntable.

Set the cassette deck to the REC/PAUSE mode following the procedure in its instruction manual. For synchronized recording from a CD player, push the PLAY button of the CD player.

The cassette deck enters the record mode the moment the CD player starts and synchronized recording commences. Synchronized recording stops automatically when the CD player stops playing.

To cancel synchronized recording, push the STOP button of the CD player, turntable or cassette deck.

Notes:

- **When the REC/PAUSE mode is set by pushing PAUSE after depressing the REC and PLAY buttons simultaneously, synchronized recording is not possible. For details, refer to your cassette deck's instruction manual.**
- **Abnormal operation will result if the power supply of any of the components is interrupted during synchronized recording. If this happens, push the component's PLAY button again to restart.**
- **Check that the COMPU LINK-1/SYNCHRO terminal of each component is connected with the remote cable provided. Be sure to read the instruction manual of each component carefully.**
- **Do not connect the remote cable when the cassette deck is connected to the TAPE 2/ VIDEO SOUND terminals.**
- **The source is locked to the CD or PHONO position during synchronized recording to avoid stopping or changing to another source accidentally. To change the source, you must first cancel synchronized recording.**
- **When performing synchronised recording from CD or PHONO to a DAT deck, the source selector will not be locked.**

INSTRUCTION GUIDE FOR COMPU LINK REMOTE CONTROL SYSTEM

"COMPU LINK" Remote Control System is a system which has been originated and developed by JVC (Victor Company of Japan, Limited). The remote control units provided with your **COMPU LINK** remote control components employ this system. By operating the remote control unit in your hand, you can not only control each component of your **COMPU LINK** component but also enjoy such complicating performances as automatic source selection and synchronized recording without any difficulty. Please operate the JVC remote control unit yourself, and you will find how excellent this system is. The following are the brief explanations of its major performances.

1. Remote controlling of each component (Fig. 28)

- Functions corresponding to the following buttons can be generated by the remote control unit:

Cassette deck:	PLAY, STOP, MUSIC SCAN, FAST FORWARD, REWIND, PAUSE and RECORD
CD player:	PLAY, STOP, AUTO SEARCH, and TRACK NO. SELECT
CD auto changer:	PLAY MODE (CONTINUE, PROGRAM, MAGAZINE PROGRAM) and DISC SELECT
Turntable:	START and STOP
Tuning control:	PRESET CHANNEL NO. SELECT

2. Automatic source selection (Fig. 29)

Press the desired source button of the receiver of remote control unit, and its corresponding source component will automatically start playing. And the source selector can be automatically switched just by pressing the playing button of the desired source component. About five seconds after the source component has been switched over, the previous play is automatically stopped.

3. Synchronized recording (Fig. 30)

By the combined use of the cassette deck and CD player, or the cassette deck and turntable, you can easily perform the synchronized recording. Follow the next procedures:

(1) Load the CD player with the desired compact disc.
(2) Set the cassette deck to the REC/PAUSE mode.
(3) Press the PLAY button of the CD player, and the cassette deck is synchronized to start recording automatically.

- **When the REC/PAUSE mode is set by pushing PAUSE after depressing the REC and PLAY buttons simultaneously, synchronized recording is not possible. For details, refer to your cassette deck's instruction manual.**
- **You can program the order of recording tracks you wish to hear. For details, refer to the instruction book of the CD player.**
- **During synchronized recording, the blank gaps of about 4 seconds are automatically made between tunes. By utilizing these gaps, the music scanning is made possible.**

TROUBLESHOOTING

What appears to be a malfunction may not always be serious.
Make sure first . . .
No sound and no illumination
Is the AC plug connected properly?
No sound from speakers
Are the speaker cords connected?
Are the SPEAKERS buttons pressed?
Sound cannot be heard from the SPEAKER 2 speakers.
Has the SURROUND SPEAKER select switch on the rear panel been set to SURROUND?
Sound from one speaker only
Are the speaker cords connected correctly? Is the BALANCE control set to one extreme or the other?
Continuous hiss or buzzing during FM reception
The incoming signal may be too weak.
Use the correct antenna.
Occasional crackling noise during FM reception.
This may be automobile ignition noise. Move antenna as far away from the road as possible.
Loud hum during record playing
Is the turntable grounded?
Try to change the cord path.
Howling during record playing
Is the turntable too close to a speaker?

Removal Procedures

■ Removing the Top cover

1. Remove the six screws fixing the top cover (four screws on the both sides and two on the rear).
2. Dismount the top cover by slightly opening its sides and lifting the rear.

■ Removing the Front Panel

1. Remove the top cover.
2. Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.
3. Remove the front panel.

■ Removing the SEA PCB (Fig. 1)

1. Remove the front panel.
2. Pull out seven SEA knobs.
3. Remove five screws Ⓐ securing the SEA PCB.

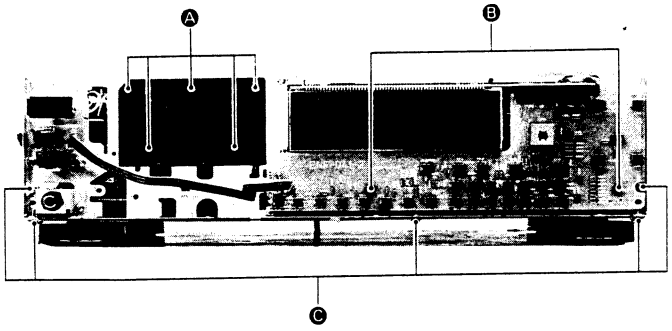


Fig. 1

■ Removing the LCD PCB (Fig. 1, 3)

1. Remove the front switch PCB.
2. Remove five screws Ⓒ securing the front bracket.
3. Remove the plastic rivet Ⓓ, and draw out the front bracket in little.
4. Remove three plastic rivets Ⓔ securing the LCD PCB.

■ Removing the Power Transistors

1. Remove the top cover.
2. Demount the bottom cover by removing 14 screws from the bottom.
3. Unsolder the power transistors.
4. Remove the screws holding the power transistors using a wrench having a diagonal length of 5.5 mm.

■ Removing the Front Switch PCB (Fig. 2, 3)

1. Remove the front panel.
2. Remove two plastic rivets Ⓑ securing the front switch PCB.
3. Lift up the bottom-end of the front switch PCB and pull it out toward you from the connector.

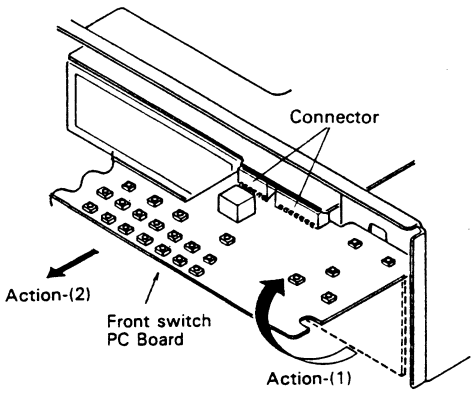


Fig. 2

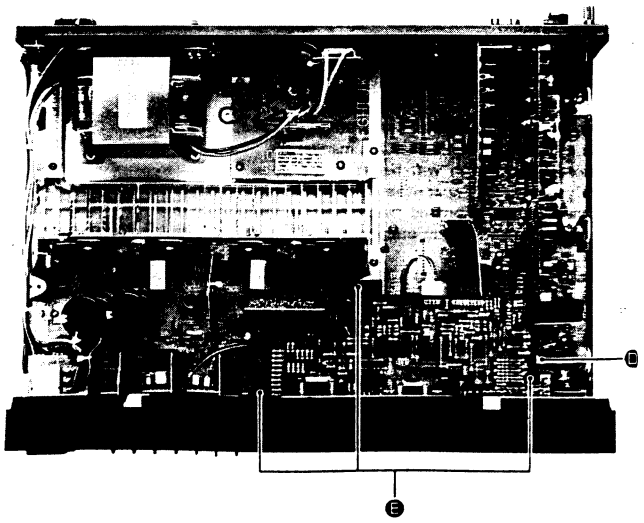
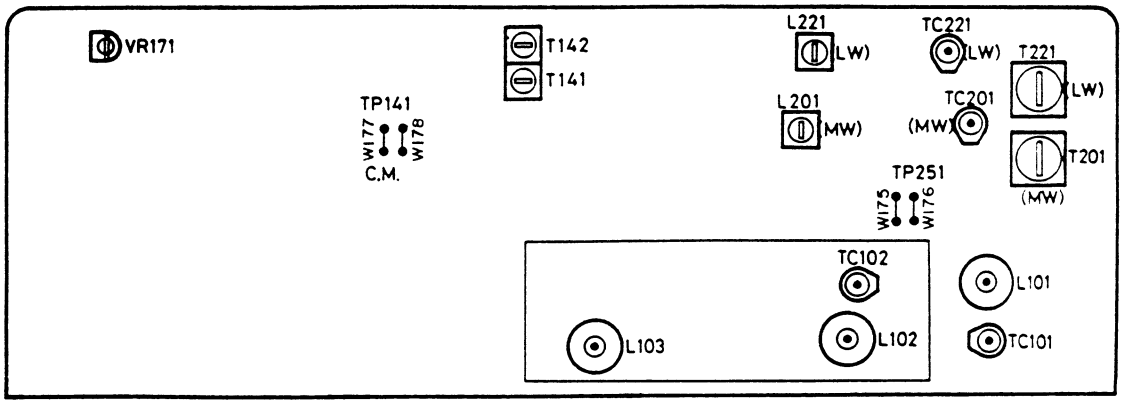


Fig. 3

FM/MW/LW Tuner Alignment Procedures



■ Front-end Section

FM oscillator coil: L103

1. Set the frequency display to "108.0 MHz" and the FM MODE switch to the "MONO" position.
2. Confirm the FM inter-station noise is received.
3. Adjust L103 so that the voltage of test point "TP251" becomes 8.3 V ± 0.1 V.
4. Set the frequency display to "87.5 MHz" and confirm that the output of test point "TP251" is 1.5~2.2 V.

FM antenna coil: L101, L102

5. Adjust L101 and L102 to obtain the maximum sensitivity at 89.9 MHz.

FM antenna trimmer: TC101, TC102

6. Adjust TC101 and TC102 to obtain the maximum sensitivity at 105.9 MHz.
7. Repeat the above adjustments of L101, L102, TC101 and TC102.

Note: After adjustment, confirm that the Band Cover is in the following range (for West Germany only).
Lower edge: 87.5 MHz (+0 Hz, −300 kHz)
Higher edge: 108.0 MHz (+500 Hz, −0 kHz)

■ IF Detection and MPX

FM detector coil: T131, T132

1. Connect a center-meter or a digital voltmeter to test point "TP141 (W177-W178)", and receive to 100.1 MHz signal in the condition of SSG ATT 70 dB.
2. Adjust T141 so that the center-meter indicates "0" or the digital voltmeter reads 0 ± 1.5 mV.
3. At the same time, adjust T142 so that the distortion is minimized.

Stereo Separation: VR171 (for Continental Europe, U.K. and Australia)

4. Tune in a 98.1 MHz stereo signal.
5. Adjust VR171 so that the channel separation becomes maximum.

■ LW Section

LW oscillator coil: L221

1. Set the frequency display to 144 kHz.
2. Adjust L221 to obtain 1.0 ± 0.1 V at test point "TP251".
3. Set the frequency display to 353 kHz and confirm that the voltage at test point "TP251" is 7.2 V ± 1.2 V.

LW antenna coil: T221

4. Connect a loop antenna to the "AM LOOP" terminal on the rear panel.
5. Adjust T221 to obtain the best receiving sensitivity on 164 kHz.

LW antenna trimmer: TC221

6. Adjust TC221 to obtain the best receiving sensitivity on 353 kHz.
7. Repeat the above adjustments of T221, TC221.

Note: After this alignment, confirm the MW section alignment.

■ MW Section

Note: ( ); 9 kHz step, [ ]; 10 kHz step

MW oscillator coil: L202

1. Set the frequency display adjust L202 to obtain (522 kHz) [530 kHz] and confirm that the output of test point "TP251" is 1.1 V ± 0.1 V.
2. Set the frequency display to 1710 kHz and confirm that the output of test point "TP251" is 8.2 V ± 0.8 V.
3. If its output is over 9 V at 1710 kHz, adjust L202 to obtain 9.0 V.

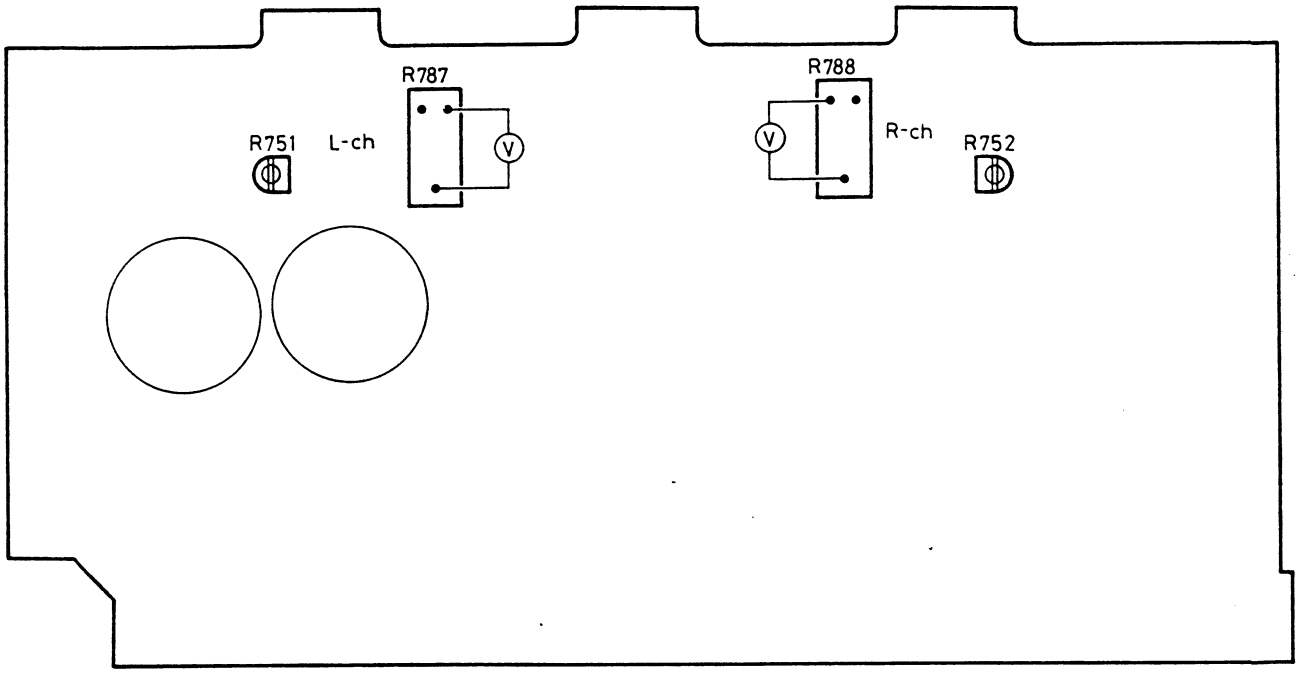
MW antenna coil: L201

4. Connect a loop antenna to the "AM LOOP" terminal on the rear panel.
5. Adjust L201 to obtain the best receiving sensitivity on (603 kHz) [600 kHz].

MW antenna trimmer: TC201

6. Adjust TC201 to obtain the best receiving sensitivity on (1404 kHz) [1400 kHz].

Power Amplifier Idling Current Adjustment

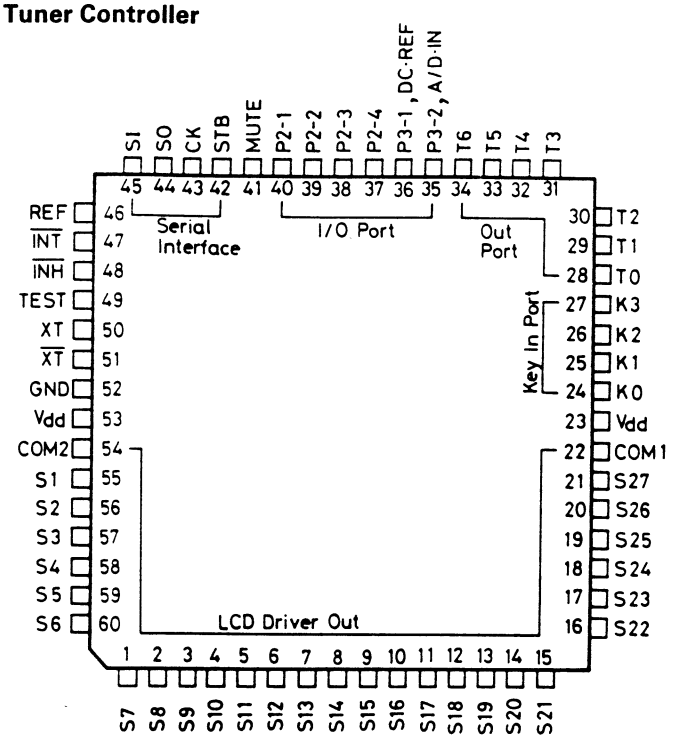


1. Turn R751 and R752 fully counterclockwise before the power switch "ON".
2. Allow the set warm up at least 5 minutes before adjustment.
3. Must keep the heat-sink to prevent overheating before adjustment.
4. Set the volume control to minimum during this adjustment.
5. Connect a digital voltmeter to R787 resistor's leads for left channel, or to R788's leads for right channel.
6. Adjust R751 for left channel, or R752 for right channel, so that the digital voltmeter reads 3~5 mV.

Internal Block Diagrams of ICs

■ TC9306F-028BS (IC421): Tuner Controller

(1) External Diagram

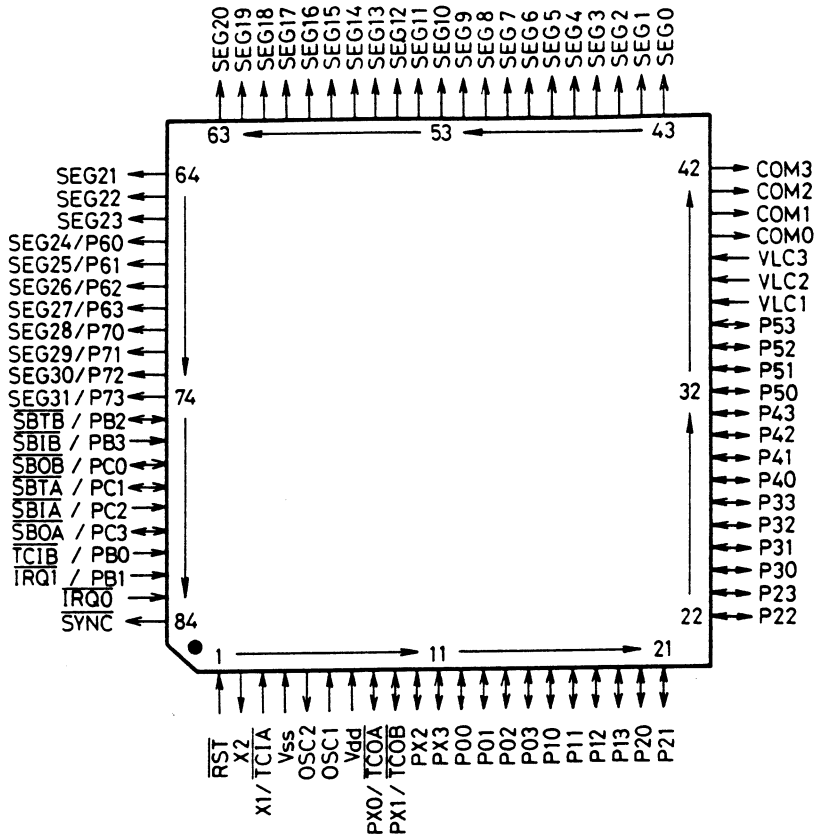


(2) Pin Functions

Pin No.	Symbol	Name	I/O	Terminal Function
55~60 1~21	SEG.1~ ~SEG.27	Segment1~ ~Segment27	O	Drive the LCD segment.
22	COM 1	Common 1	O	Drive the common 1 of the LCD.
54	COM 2	Common 2	O	Drive the common 2 of the LCD.
24	K0	Key in 0	I	Key input
25	K1	Key in 1	I	Key input
26	K2	Key in 2	I	Key input
27	K3	Key in 3	I	Key input
28	T0	Key out 0	O	Key output
29	T1	Key out 1	O	Key output
30	T2	Key out 2	O	Key output
31	T3	Key out 3	O	Key output
32	T4	Key out 4	O	Key output
33	T5	Key out 5	O	Key output
34	T6	Key out 6	O	Key output
35	A/D IN	A/D input or TUNED input	I	Input for signal meter or input for TUNED indicator
36	DC REF	DC reference	I	Reference voltage for A/D
37	P2-4	Key out 7	O	Key output
38	P2-3	DCS IN	I	Input for Direct Call System
39	P2-2	DCS OUT	O	Output for Direct Call System
40	P2-1	STEREO IN	I	Input for stereo indicator
41	MUTE	MUTE	O	"H" output when muting is turned ON.
42	STB	STB	O	Serial Data Bus (Connect to LC7217.)
43	CK	CK	O	Serial Data Bus (Connect to LC7217.)
44	SO	SO	O	Serial Data Bus (Connect to LC7217.)
45	SI	SI	I	Serial Data Bus (Connect to LC7217.)
46	REF	REF	O	Output for PLL reference frequency
47	$\overline{INT}$	$\overline{INT}$	I	Initialized at "L" level
48	$\overline{INH}$	$\overline{INH}$	I	State of inhibit at "L" level
49	TEST	TEST	---	Terminal of crystal osccilator (7.2 MHz)
50	XT	XT	---	Terminal of crystal osccilator (7.2 MHz)
51	$\overline{XT}$	$\overline{XT}$	---	Terminal of crystal osccilator (7.2 MHz)
52	GND	GND	---	Ground
23,53	VDD	VDD	---	+5V (Connecting inside)

■ MN17861JSK (IC441): System Controller

(1) External Diagram

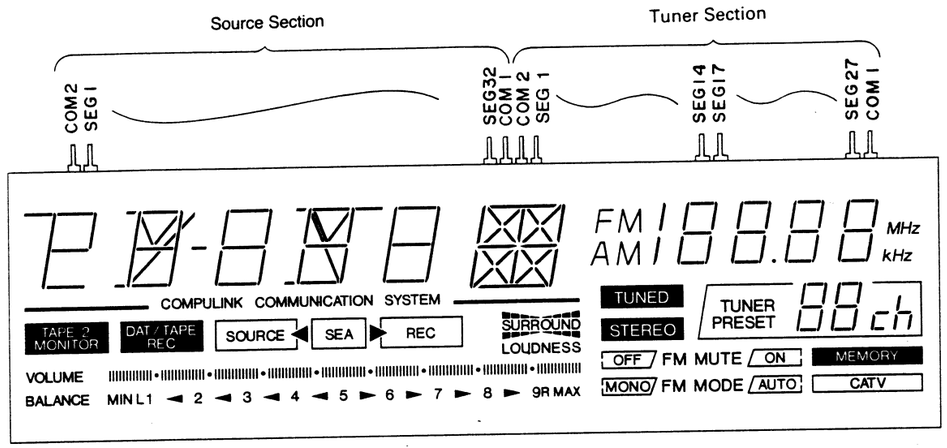


(2) Pin Functions

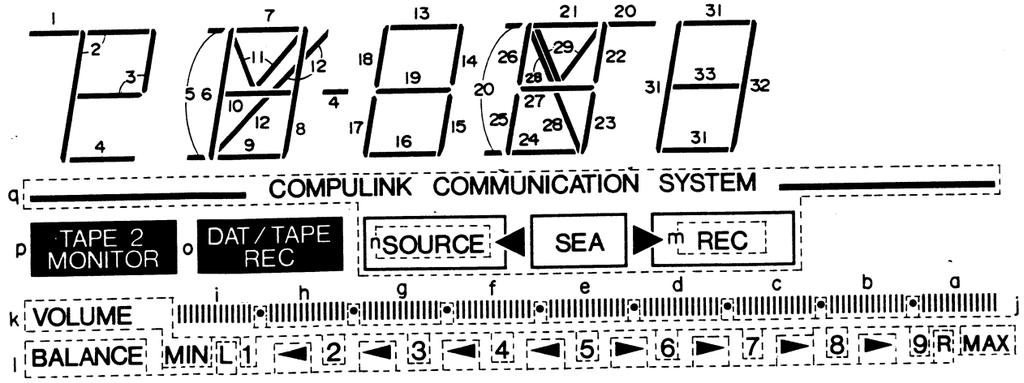
Pin No.	Pin Name	Pin Function
1	$\overline{RST}$	Used for resetting when "L" level is input more than one machine cycle.
2	— — —	Not used.
3	X1/$\overline{TCIA}$	Used to input the event counter of tmer counter A or input the system clock for low-speed operation. The counter clock is input.
4	VSS	Used to connect to ground (0V).
5 6	OSC2 OSC1	Used to connect a crystal or ceramic oscillator element.
7	VDD	Used to connect to +3V ~ +5.5V.
8 〃 11 12 〃 35	PX0 〃 PX3 P00 〃 P53	Used for the input/output port of 4-bit parallel data. Input/output control can be provided for each port by instructions. Used to assign the bit unit to Poo through P33. Used to input/output on 8-bit parallel dta to/from porto and rort1, port 2 and port3 port4 and port5 as a pair. Used to provide the input mode during reset.
8 9	PX0/$\overline{TCOA}$ PX1/$\overline{TCOB}$	Used for the timer A output terminal. Used for the timer B output terminal.
36 37 38	VLC1 VLC2 VLC3	Used for the LCD power supply input terminal.
39 40	COM1 COM2	Used for the LCD Common 1 output terminal. Used for the LCD Common 2 output terminal.

Internal Wiring of LCD (LC421: ELU0002-043)

■ Terminal Layout



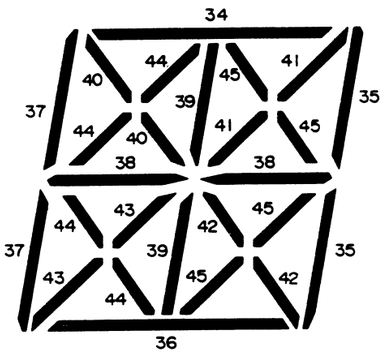
■ Source Section (1)



Common	Segment												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	*a*	*c*	*e*	*g*	*i*	*k*	*m*	*o*	*1*	*3*	*6*	*10*	*11*
2	*b*	*d*	*f*	*h*	*j*	*l*	*n*	*p*	*2*	*4*	*5*	*9*	*7*

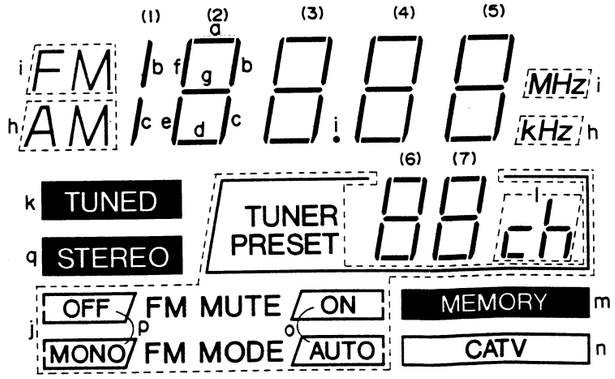
Common	Segment											
	14	15	16	17	18	19	20	21	22	23	24	25
1	*12*	*17*	*18*	*19*	*20*	*24*	*28*	*29*	*27*	*23*	*33*	*32*
2	*8*	*16*	*13*	*14*	*15*	*25*	*26*	*21*	*22*	*30*	*31*	*q*

■ Source Section (2)



Common	Segment						
	26	27	28	29	30	31	32
1	*37*	*38*	*34*	*45*	*41*	*42*	*r*
2	*43*	*44*	*40*	*39*	*35*	*36*	*s*

■ Tuner Section



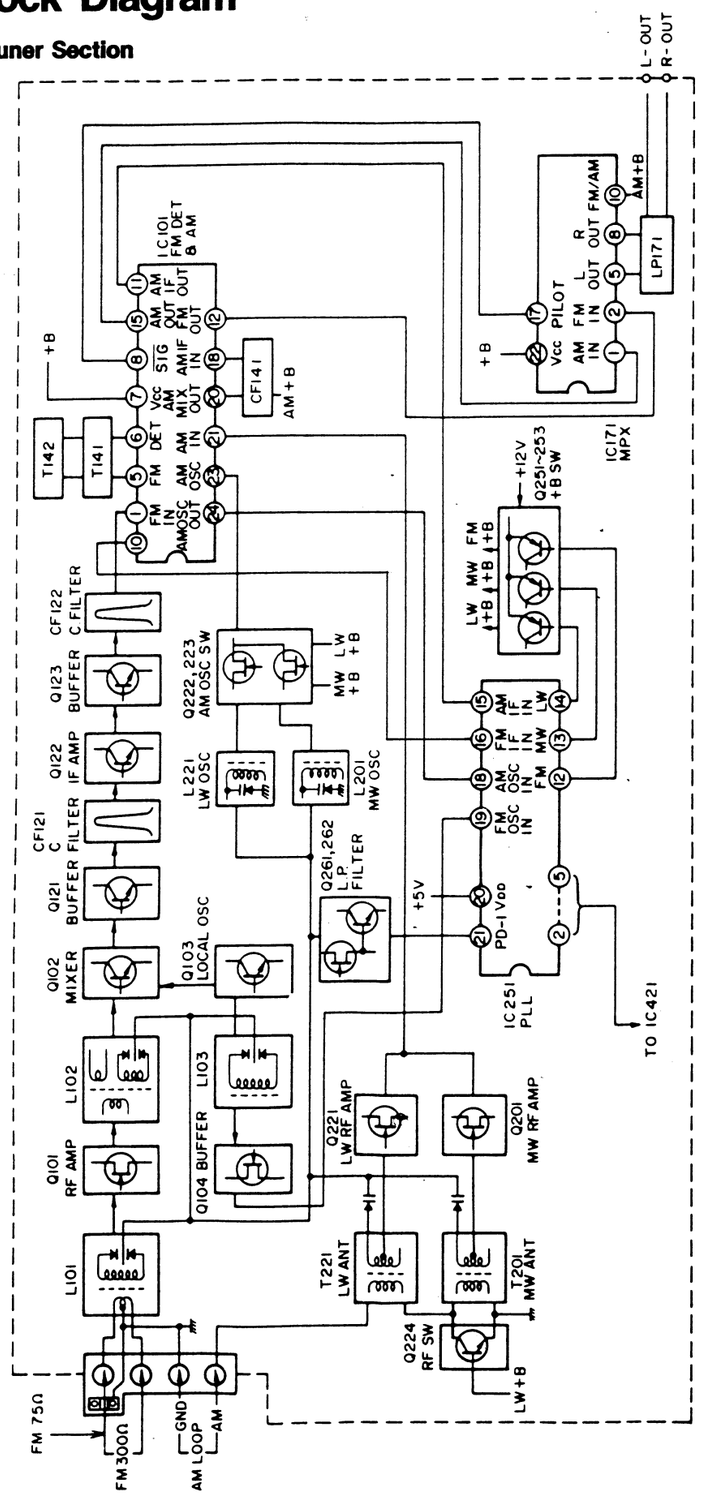
Common	Segment												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	*(2)d*	*(2)e*	*(2)f*	*(2)g*	*(3)d*	*(3)e*	*(3)f*	*(3)g*	*(4)d*	*(4)e*	*(4)f*	*(4)g*	*(5)a,c,d,f*
2	*(1)b,c*	*(2)c*	*(2)a*	*(2)b*	*h*	*(3)c*	*(3)a*	*(3)b*	*i*	*(4)c*	*(4)a*	*(4)b*	*(5)b,e*

Common	Segment											
	14	17	18	19	20	21	22	23	24	25	26	27
1	*j*	*(6)d*	*(6)e*	*(6)f*	*(6)g*	*(7)d*	*(7)e*	*(7)f*	*(7)g*	*m*	*o*	*q*
2	*(5)g*	*k*	*(6)c*	*(6)a*	*(6)b*	*l*	*(7)c*	*(7)a*	*(7)b*	*n*	*p*	—

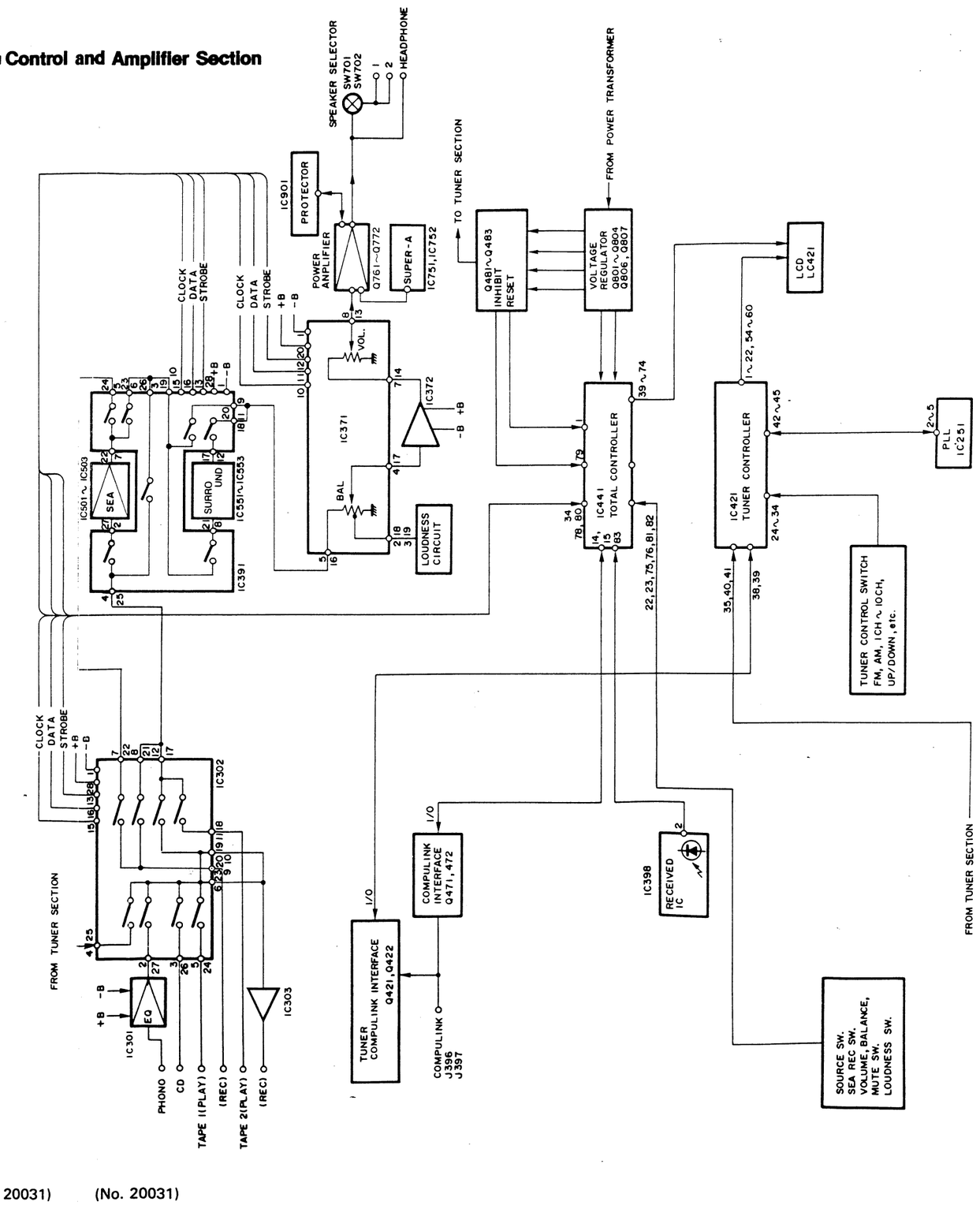
RX-555BK	RX-555BK
RX-555LBK	RX-555LBK

Block Diagram

■ Tuner Section

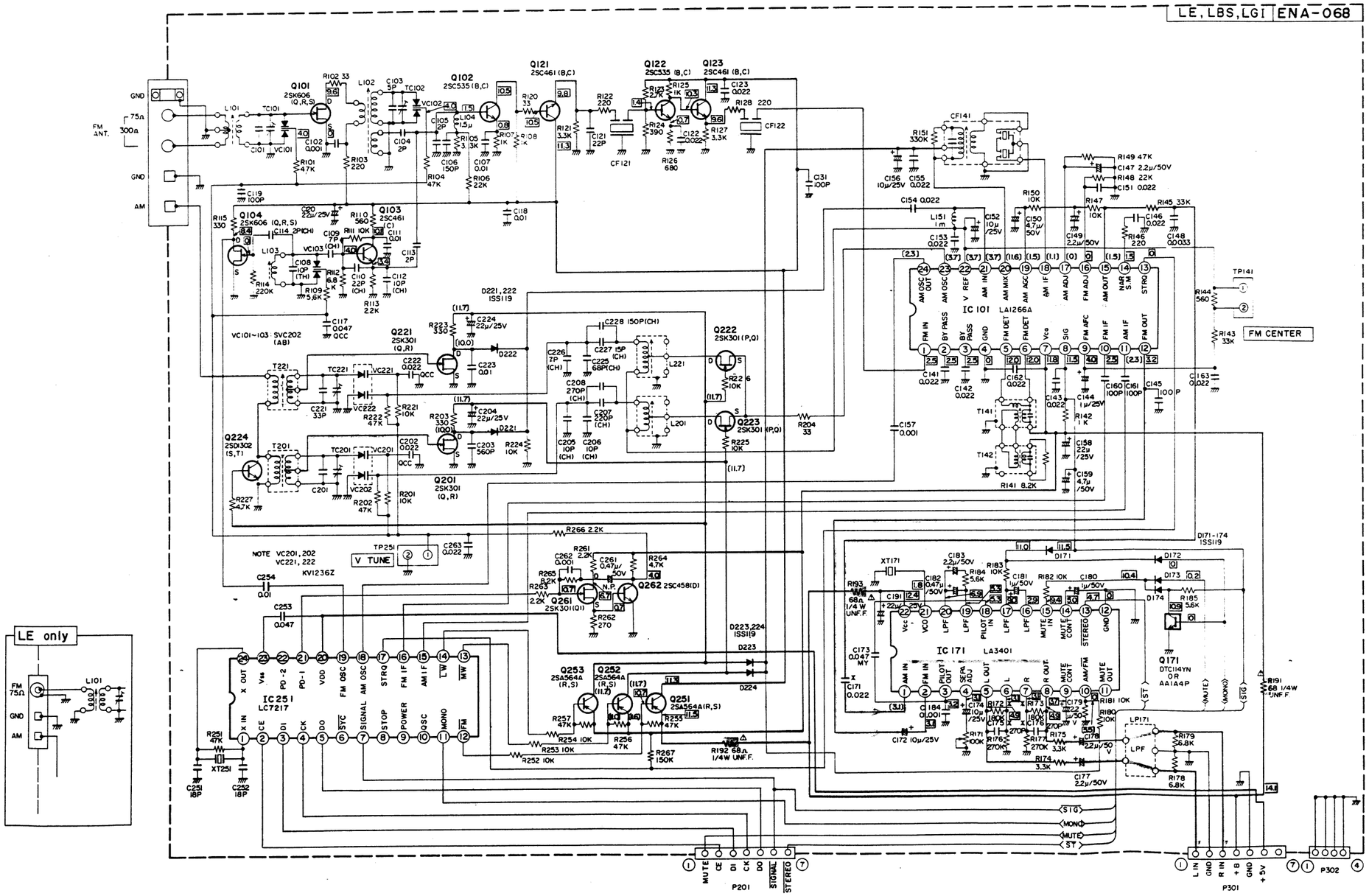


■ Control and Amplifier Section



Schematic Diagrams

(1) RX-555LBK Tuner Section

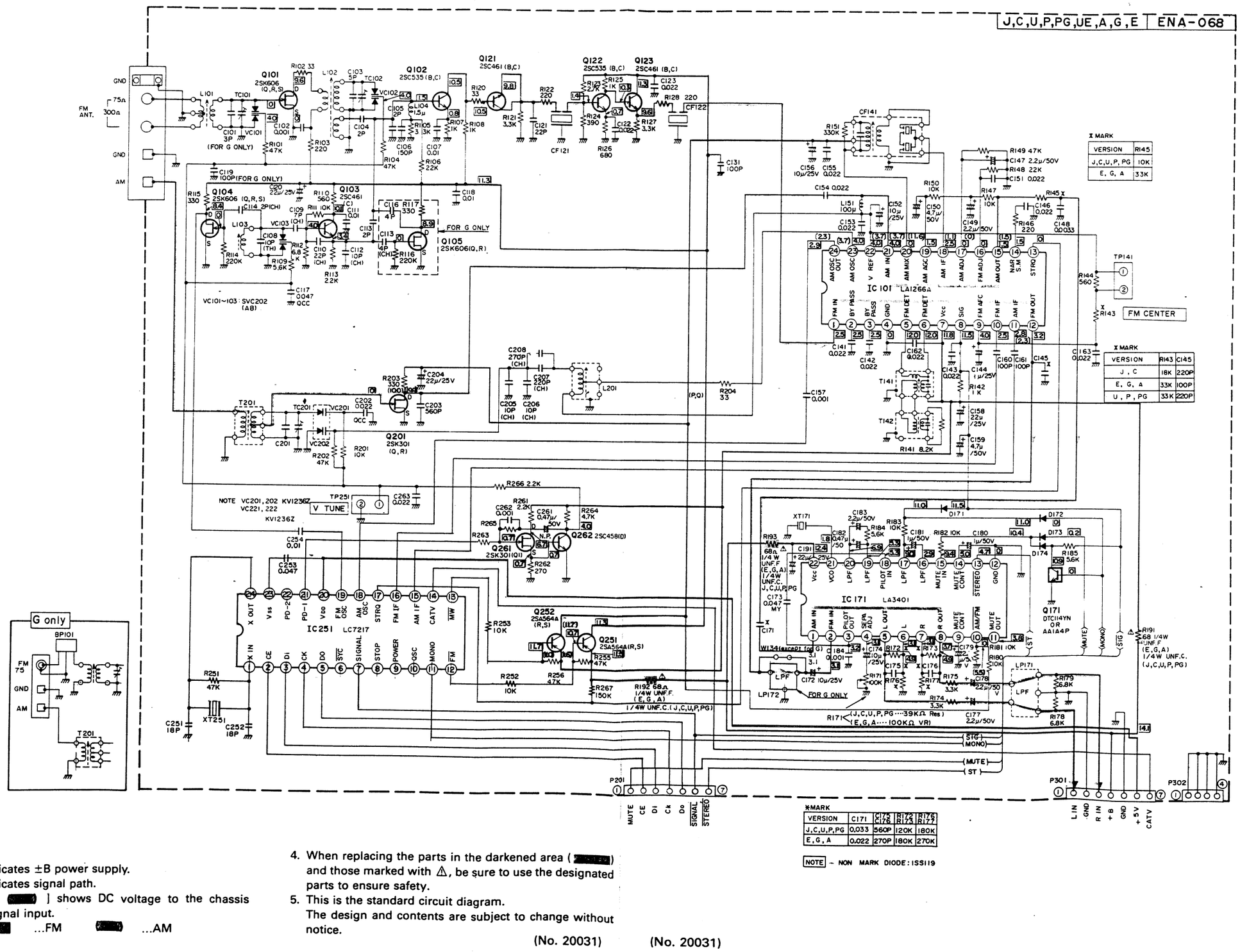


Notes:

1. ——— indicates ±B power supply.
2. ▬ indicates signal path.
3. ▬ / [▬] shows DC voltage to the chassis with no signal input.
   ▬ ...FM ▬ ...AM
4. When replacing the parts in the darkened area (▬) and those marked with ⚠, be sure to use the designated parts to ensure safety.
5. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

RX-555BK	RX-555BK
RX-555LBK	RX-555LBK

(2) RX-555BK Tuner Section



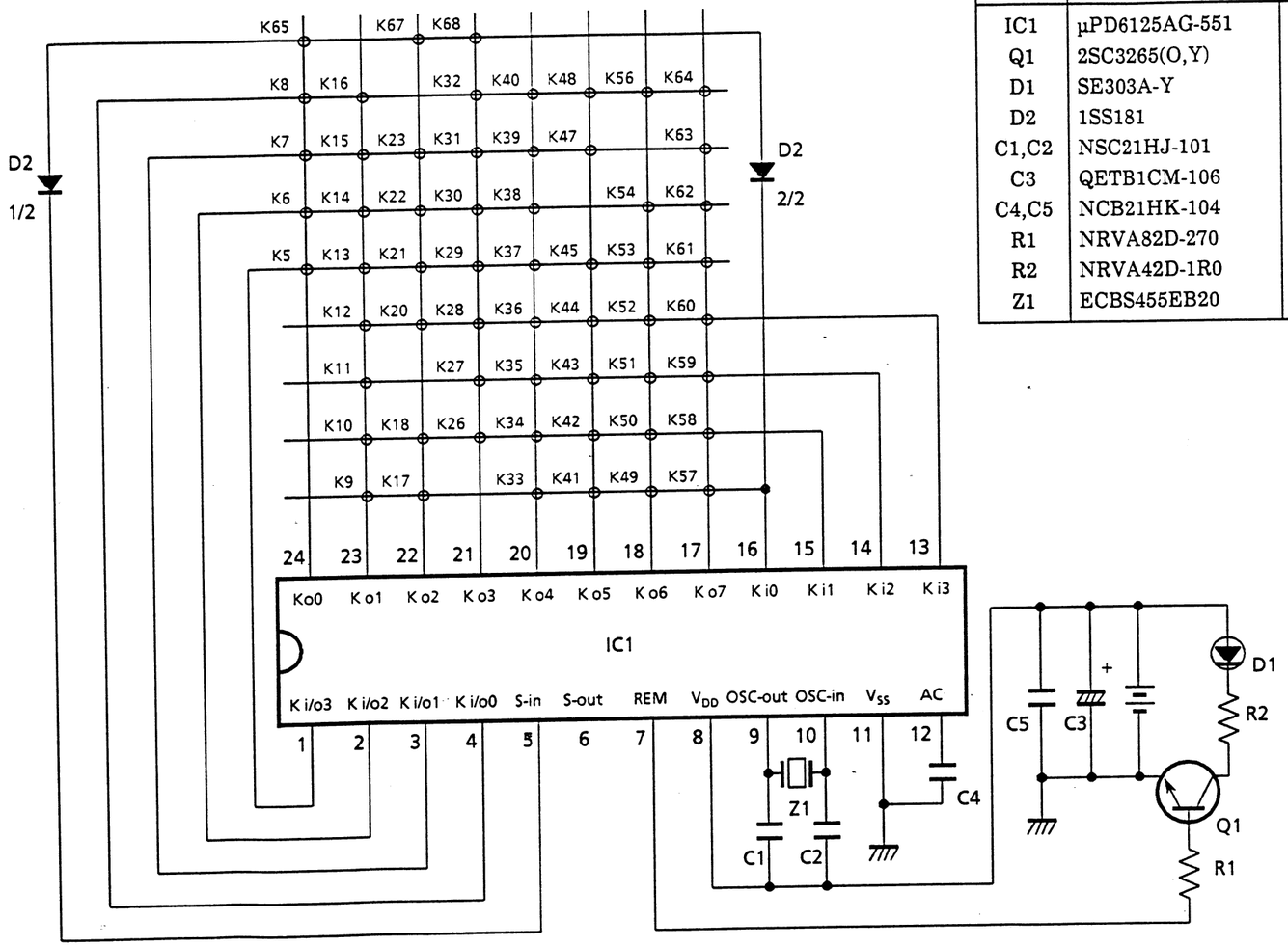
Notes:

1. ——— indicates ±B power supply.
2. ▬ indicates signal path.
3. ▬ / [▬] shows DC voltage to the chassis with no signal input.
   ▬ ...FM ▬ ...AM
4. When replacing the parts in the darkened area (▬) and those marked with ⚠, be sure to use the designated parts to ensure safety.
5. This is the standard circuit diagram.
   The design and contents are subject to change without notice.

(No. 20031) (No. 20031)

Remote Control Unit (RM-SR555)

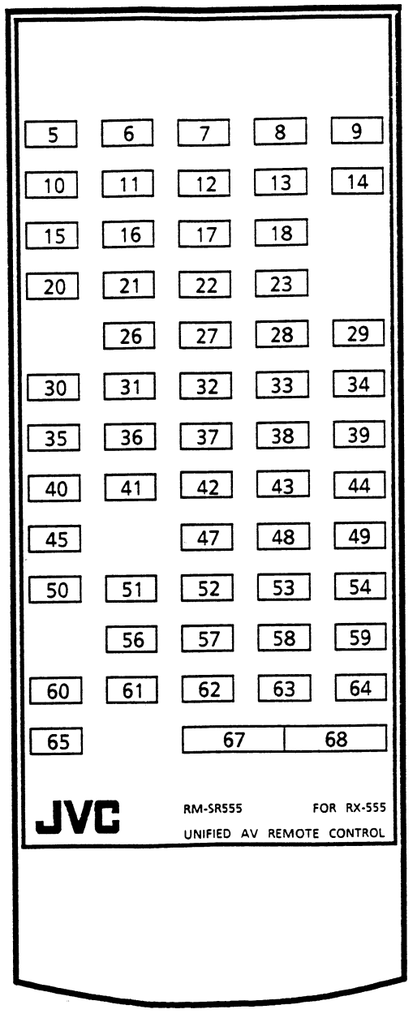
■ Schematic Diagram



■ Parts List

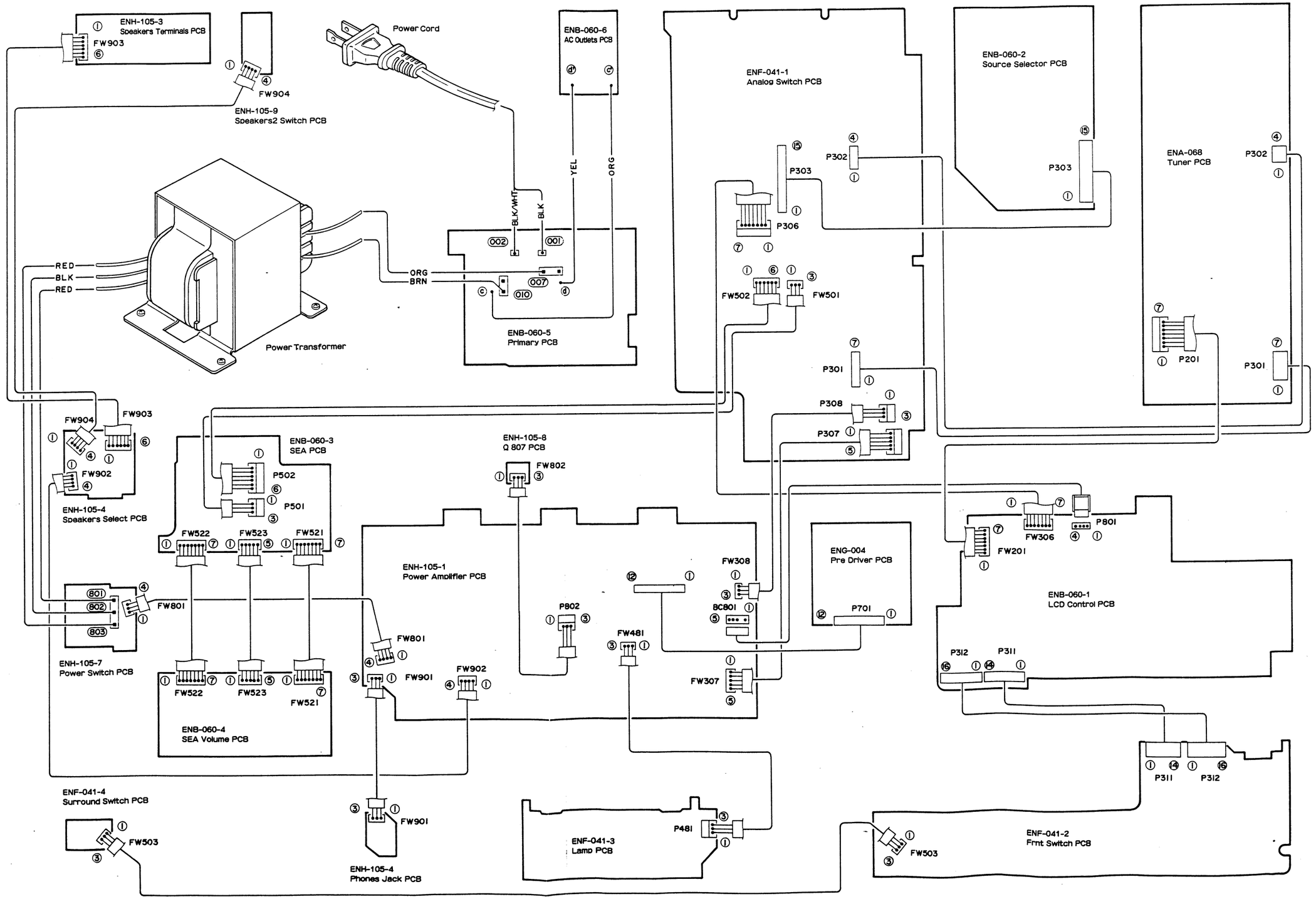
Symbol	Part Number	Description
IC1	µPD6125AG-551	
Q1	2SC3265(O,Y)	
D1	SE303A-Y	
D2	1SS181	
C1,C2	NSC21HJ-101	100pF
C3	QETB1CM-106	10µF,16V
C4,C5	NCB21HK-104	0.1µF
R1	NRVA82D-270	27Ω,1/8W
R2	NRVA42D-1R0	1.0Ω,1/4W
Z1	ECBS455EB20	455kHz

■ Key Layout

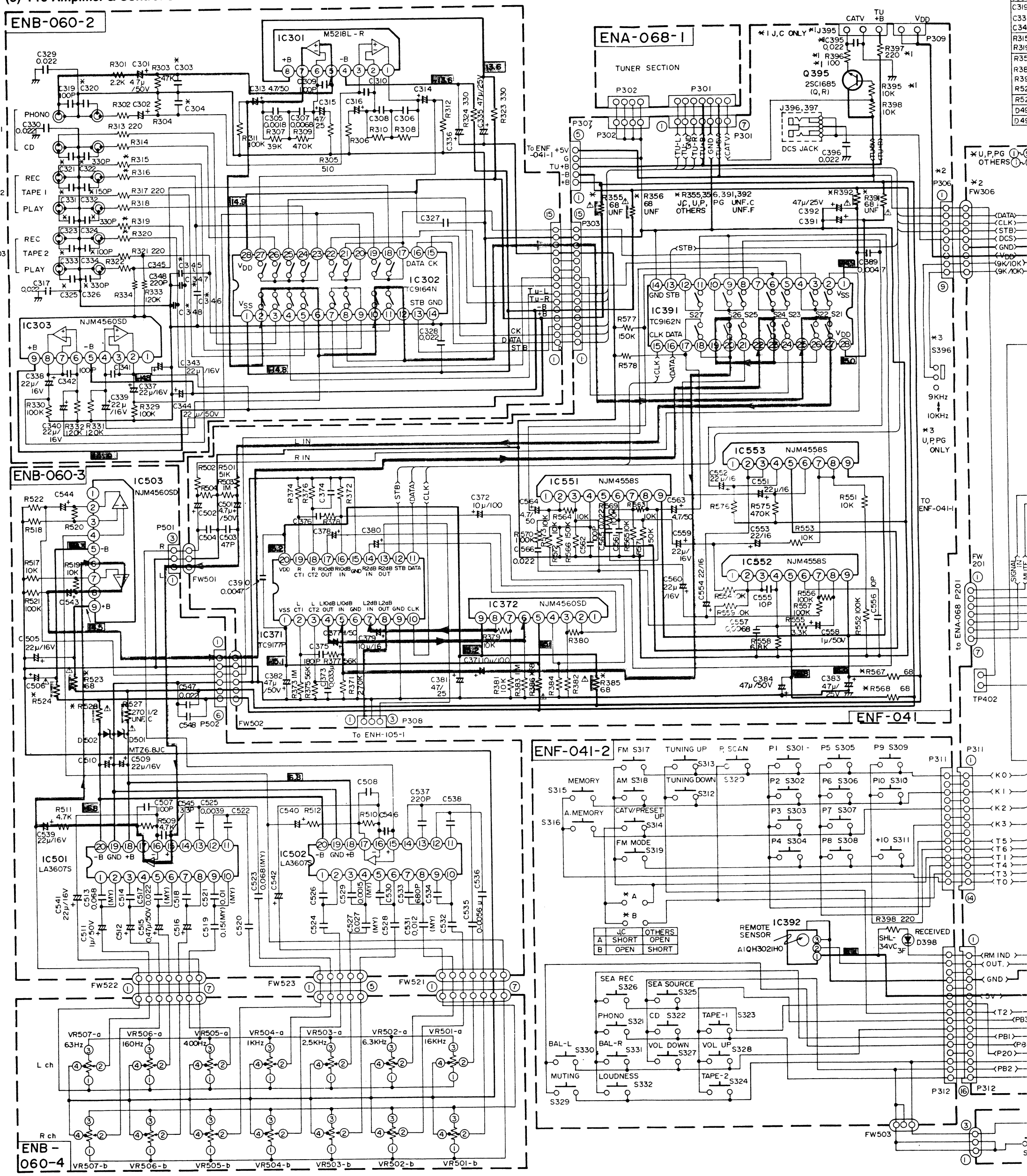


RX-555BK	RX-555BK
RX-555LBK	RX-555LBK

Connection Diagram



(3) Pre-Amplifier & Control Section



	J,C,U,P,PG	E,A,BS,GI	G
C303,304	100P	—	470P
C319~326 C331~334 C345~348	NONE	—	USED
R315,316 R319,320	220	—	2.2K
R355,356 R385,386 R391,392 R523,524	UNF.C	UNF.F	—
R528	270 1/2 UNF.C	390 1/4 UNF.F	—
D495,496	NONE	USED	—
D497,498	USED	NONE	—

ENF-041-3

PL401,402
12V 150mA

MTZ12JC : D497,498
RD12EB3 : D495,496

ENB-060-1

* D429 GI ONLY
* D430 J, C ONLY
* D431 UE ONLY
* D432 E, A, LE, LBS, G, GI
* D433 LE, LBS, GI
* D434 UE

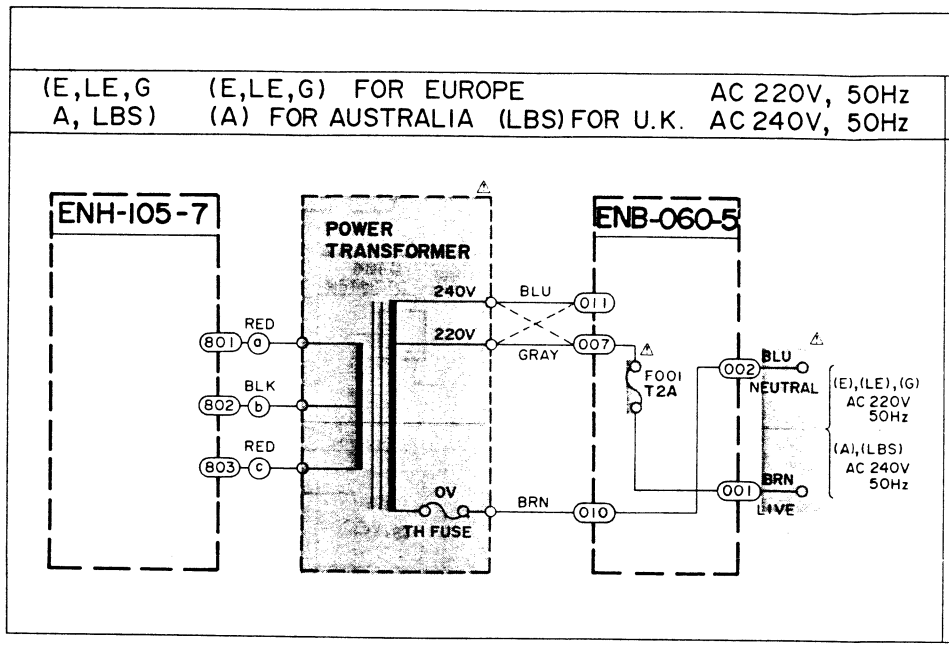
D429~D434 ISS133

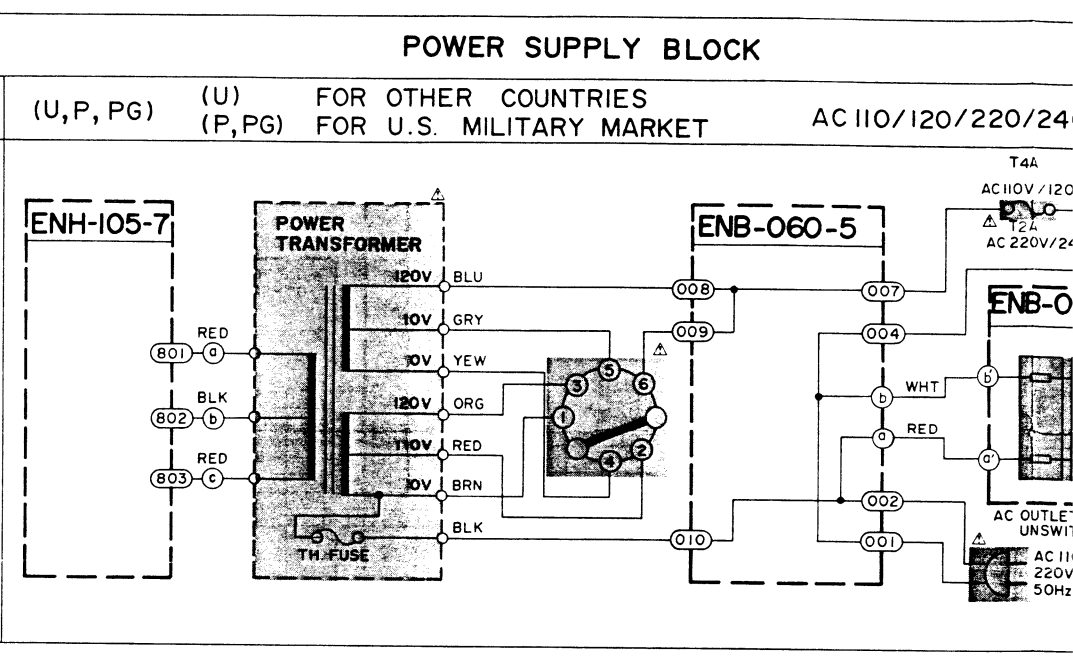
ENF-041

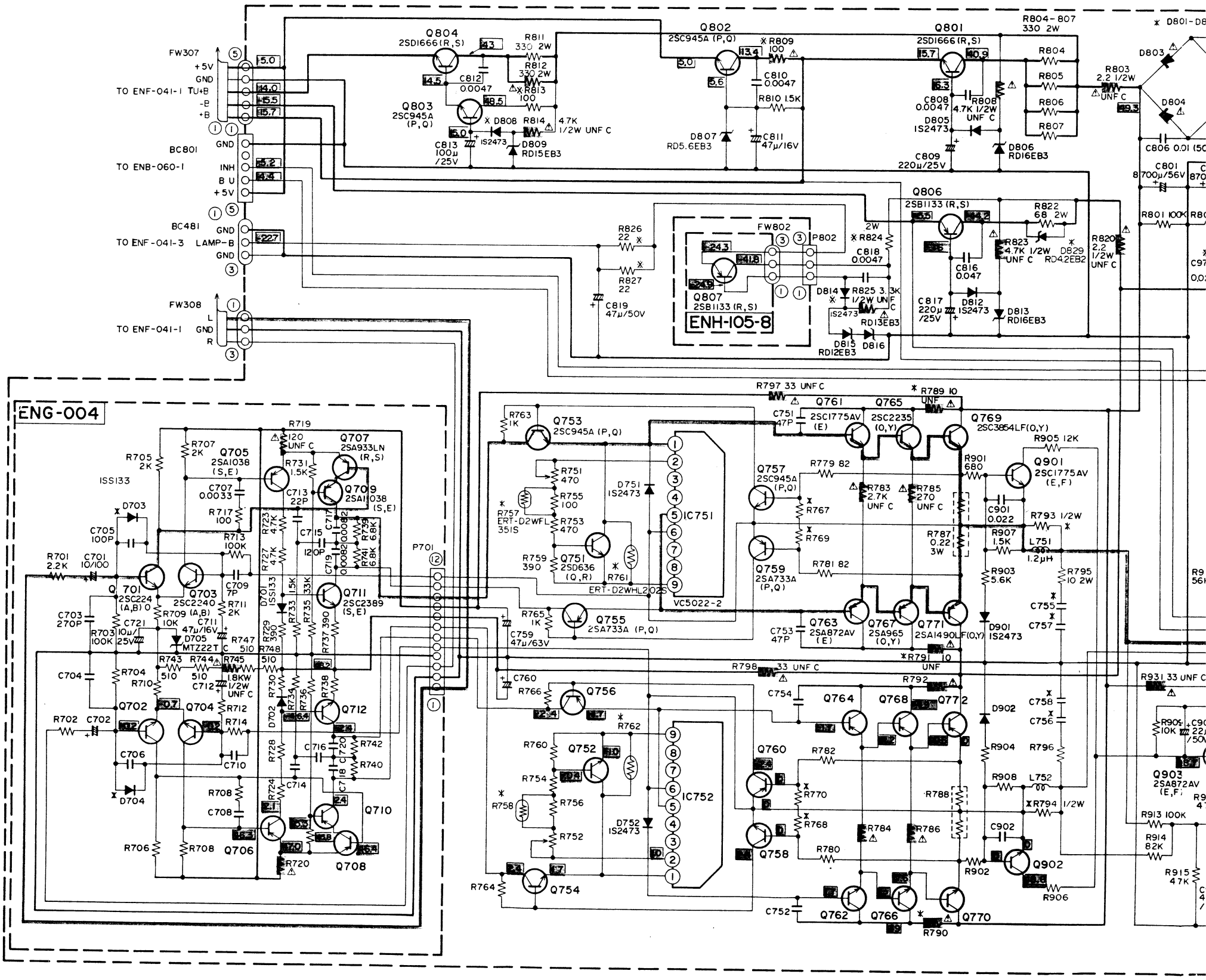
ENF-041-4

(No. 20031)

(4) Power Amplifier Section





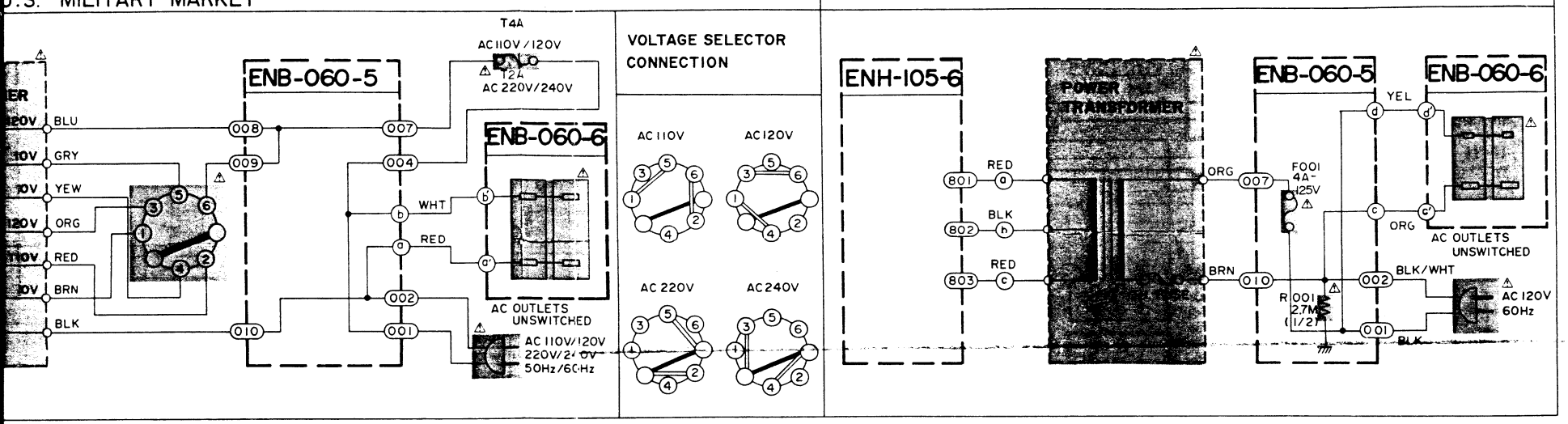


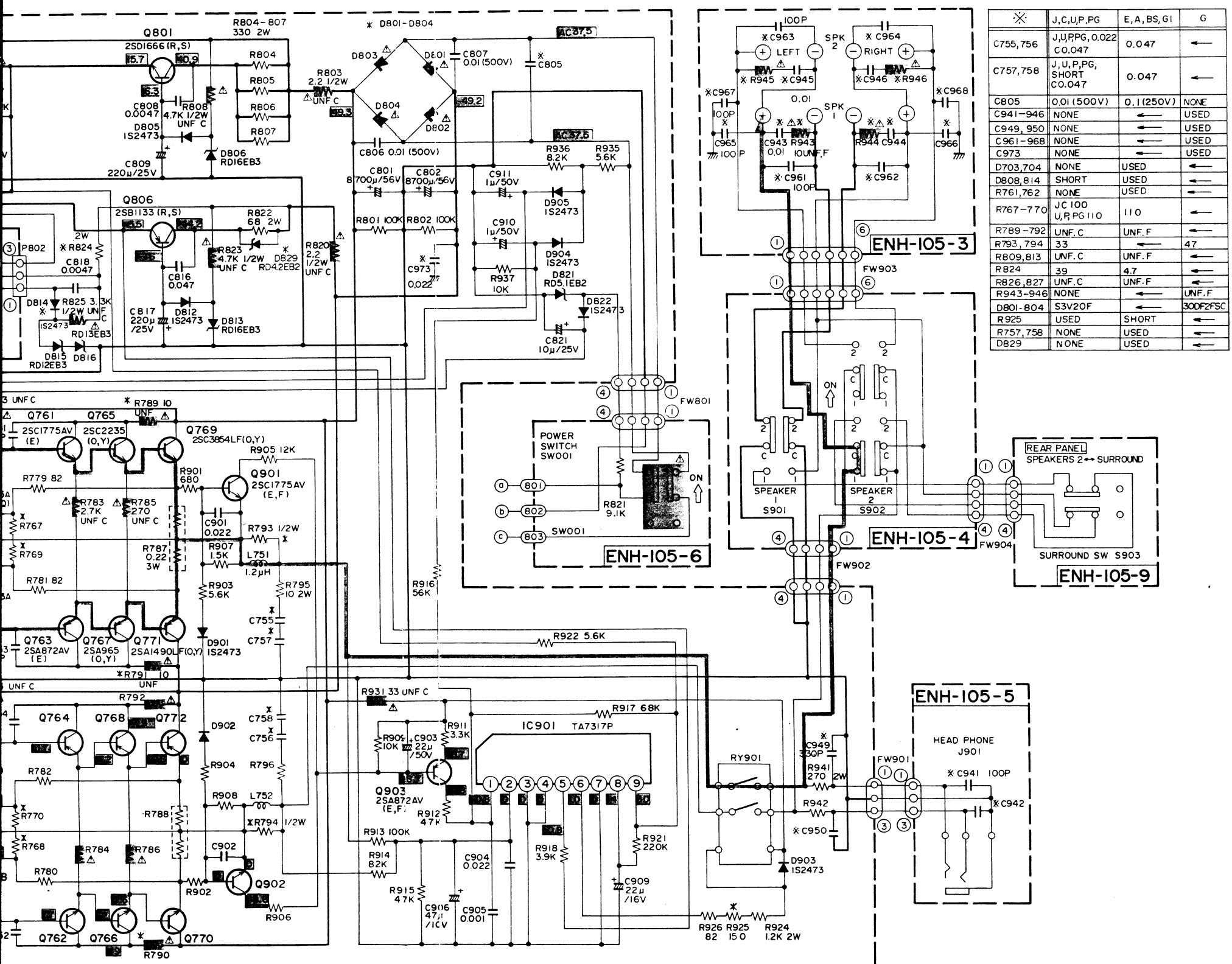
(No. 20031)

POWER SUPPLY BLOCK

OTHER COUNTRIES
U.S. MILITARY MARKET — AC 110/120/220/240V, 50/60Hz

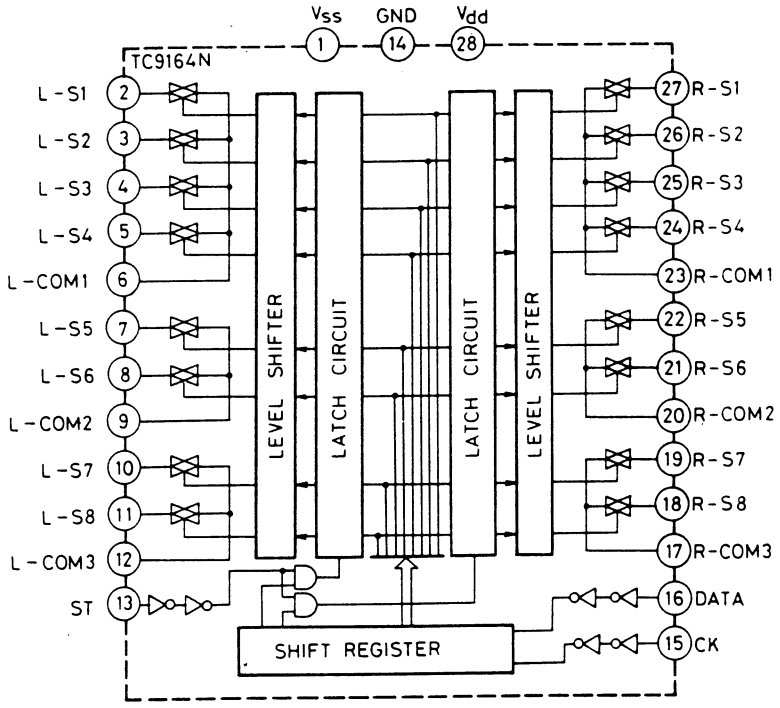
(J,C) FOR U.S.A. & CANADA — AC 120V, 60Hz



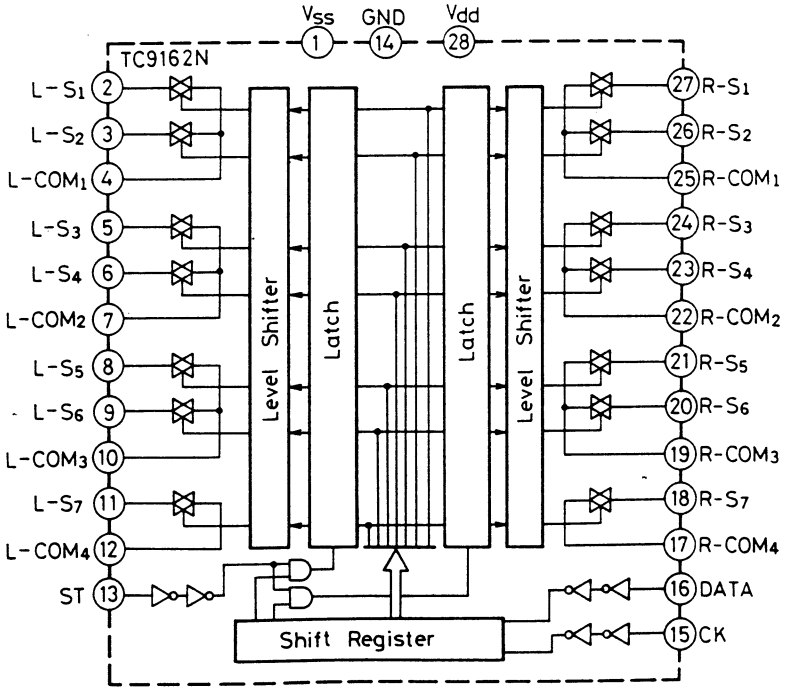


※	J,C,U,P,PG	E,A,BS,GI	G
C755,756	J,U,P,PG,0.022 C0.047	0.047	←
C757,758	J,U,P,PG, SHORT C0.047	0.047	←
C805	0.01 (500V)	0.1(250V)	NONE
C941-946	NONE	←	USED
C949,950	NONE	←	USED
C961-968	NONE	←	USED
C973	NONE	←	USED
D703,704	NONE	USED	←
D808,814	SHORT	USED	←
R761,762	NONE	USED	←
R767-770	J C 100 U,P,PG 110	110	←
R789-792	UNF.C	UNF.F	←
R793,794	33	←	47
R809,813	UNF.C	UNF.F	←
R824	39	4.7	←
R826,827	UNF.C	UNF.F	←
R943-946	NONE	←	UNF.F
D801-804	S3V20F	←	30DF2FSC
R925	USED	SHORT	←
R757,758	NONE	USED	←
D829	NONE	USED	←

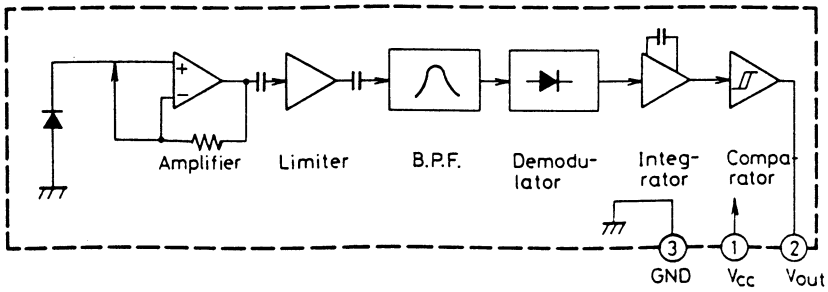
■ **TC9164N (IC302)**



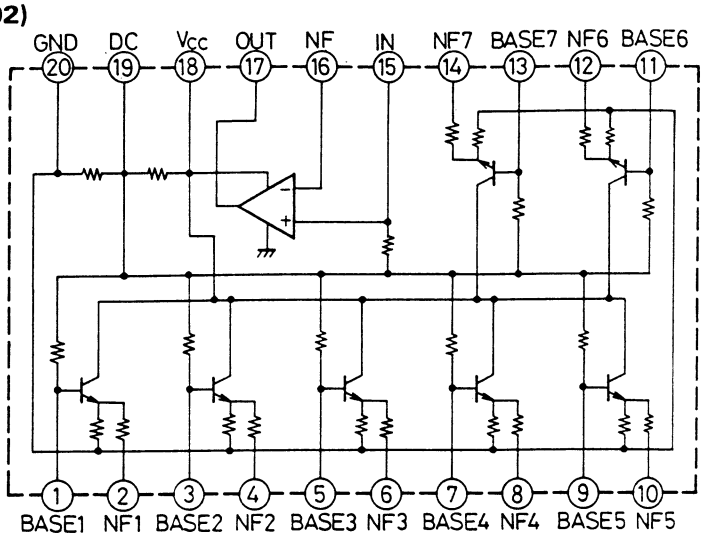
■ **TC9162N (IC391)**



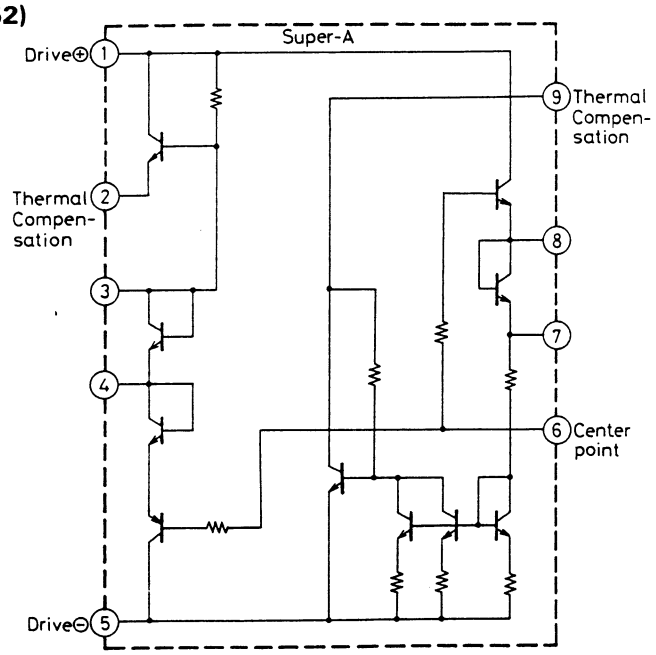
■ **AIQH3021H0**



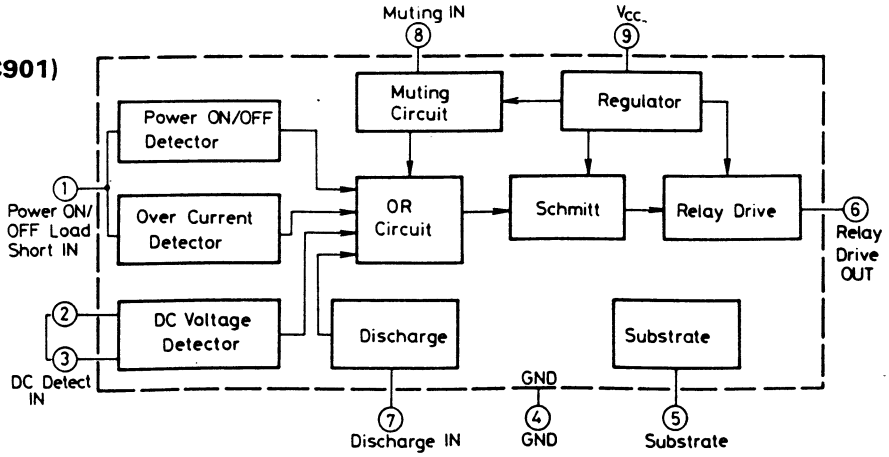
■ **LA3607S (IC501, IC502)**



■ **VC5022-2 (IC751, IC752)**



■ **TA7317P (IC901)**



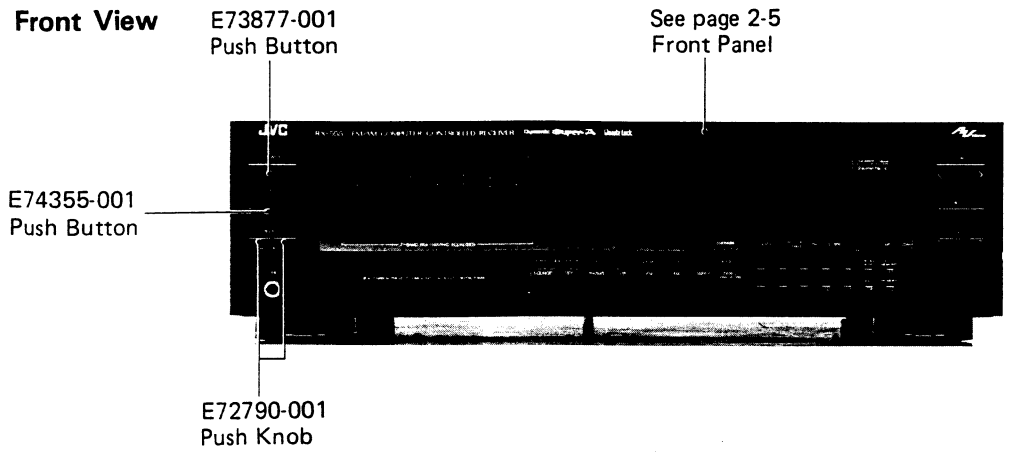
PARTS LIST

Contents

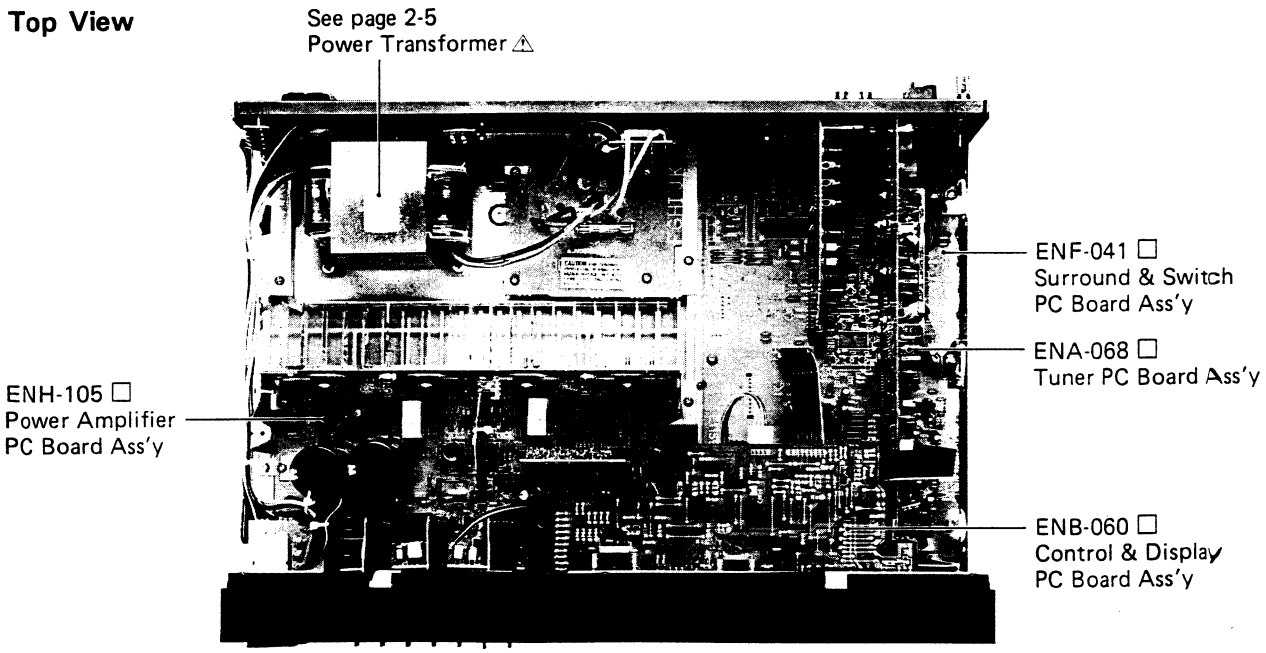
Main Parts Location 2-2
Exploded View and Parts List 2-3
Printed Circuit Board Ass'y and Parts List 2-7
■ ENH-105 ☐ Power Amplifier PC Board Ass'y 2-7
■ ENA-068 ☐ Tuner PC Board Ass'y 2-10
■ ENB-060 ☐ Control & Display PC Board Ass'y 2-14
■ ENF-041 ☐ Surround & Switch PC Board Ass.y 2-18
■ ENG-004 ☐ Pre-driver Module PC Board Ass'y 2-20
Accessories List 2-22
Packing Materials and Part Numbers 2-23

Main Parts Location

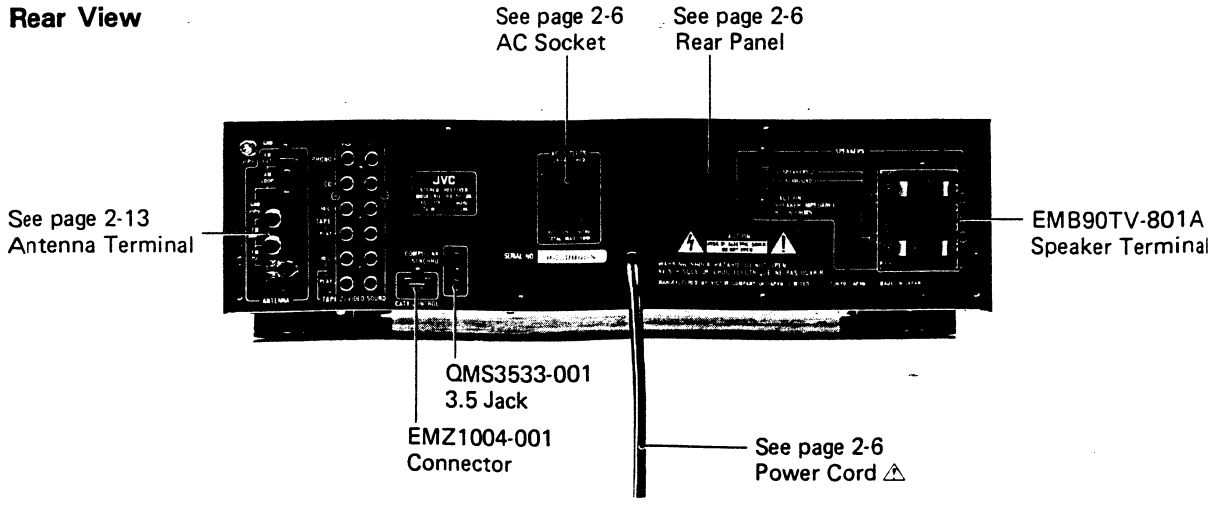
■ Front View



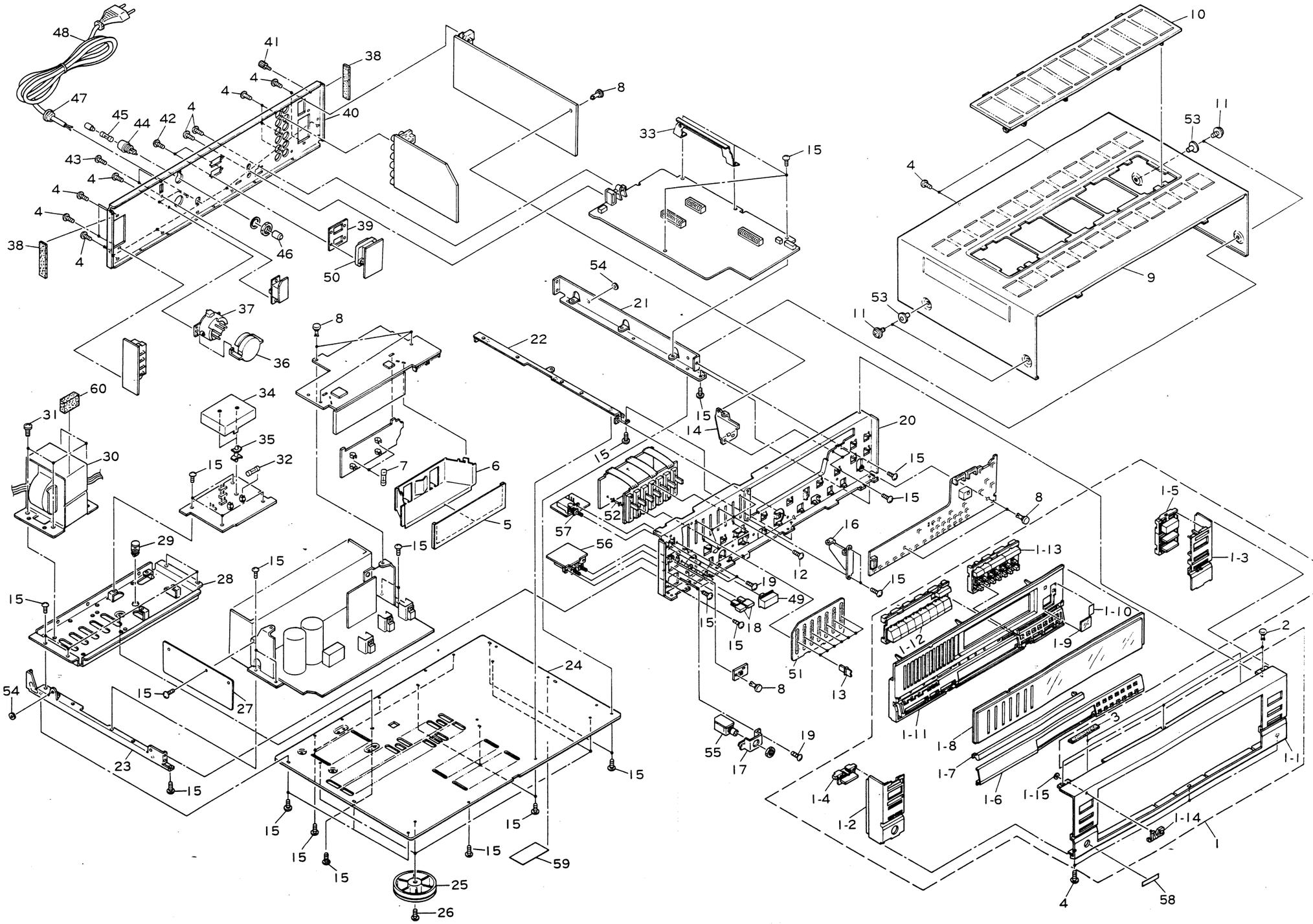
■ Top View



■ Rear View



Exploded View and Parts List



Parts List

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-RX555BKE	Front Panel Ass'y	1		Except LE, LEF, LGI, LBS
		EFP-RX555LBKE	Front Panel Ass'y	1		LE, LEF, LGI, LBS
	1-1	E25827-008	Front Panel	1		Except LE, LEF, LGI, LBS
		E25827-009	Front Panel	1		LE, LEF, LGI, LBS
	1-2	E305058-001	Side Escutcheon	1	Left	
	1-3	E305059-001	Side Escutcheon	1	Right	
	1-4	E74355-001	Push Button	1		
	1-5	E305056-002	Volume Button	1		
	1-6	E25839-001	Sub Panel	1		
	1-7	E305066-001	Cap	1		
	1-8	E25832-001	Window Screen	1		
	1-9	E72436-008	Screen	1		
	1-10	E72437-006	Sheet	1		
	1-11	E11598-002	Front Base	1		
	1-12	E25830-003	Source Button	1		Except LE, LEF, LGI, LBS
		E25830-004	Source Button	1		LE, LEF, LGI, LBS
	1-13	E25843-001	Preset Button	1		J, C
		E25843-002	Preset Button	1		Except J, C
	1-14	E72968-001	JVC Mark	1		
	1-15	E60912-003	Speed Nut	1		
	2	E48729-009	Plastic Rivet	3		
	3	EXO050005N25S02	Felt Spacer	3		
	4	SBSE3008M	Screw	18		Except J, C, U, P, PG, G
		SBSE3008M	Screw	19		J, C, G
		SBSE3008M	Screw	20		U, P, PG
	5	E73005-005	Sheet	1		
	6	E305054-001	Lamp Holder	1		
	7	ELP4101-003	Fuse Lamp	2		
	8	E48729-008	Plastic Rivet	7		
	9	E25834-003	Metal Cover	1		J, C, U, P, PG, A, G
		E25835-003	Metal Cover	1		Except J, C, U, P, PG, A, G
	10	E23862-005	Grill	1		Except J, C, U, P, PG, A, G
	11	E61660-005	Special Screw	4		
	12	E70053-001	Special Screw	5		
	13	E73847-002	Slide Knob	7	SEA	
	14	E74450-001	Stay Bracket	1		
	15	SBSE3008CC	Screw	41		
	16	E73863-001	Stay Bracket (L)	1		
	17	E74448-001	Headphone Bracket	1		
	18	E72790-001	Push Knob	2	SPK Switch	
	19	SBST3006CC	Screw	4		
	20	E11597-001	Front Bracket	1		
	21	E304584-002	Side Bracket	1	Right	
	22	E304585-001	Center Bracket	1		
	23	E304583-002	Side Bracket	1	Left	
	24	E11424-002	Bottom Plate	1		
	25	E74522-001	Foot Ass'y	4		
	26	GBST3008CC	Screw	4		
	27	E73937-001	Protect Sheet	1		
	28	E25572-001	Trans Bracket	1		
	29	E49383-002	Fastener	1		
⚠	30	ETP1150-23JA	Power Transformer	1		J, C
⚠		ETP1150-23FA	Power Transformer	1		U, P, PG
⚠		ETP1150-23EA	Power Transformer	1		E, EF, A, G, LE, LEF, LGI
⚠		ETP1150-23EABS	Power Transformer	1		LBS
	31	E65389-002	Special Screw	4		
⚠	32	QMF61U1-4R0	Fuse	1		J, C
⚠		QMF51A2-2R0S	Fuse	1		E, EF, A, G, LG, LGI, LEF
⚠		QMF51E2-2R0SBS	Fuse	1		LBS
	33	E304771-001	Earth Plate	1		

⚠ : Safety Parts

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	34	E305247-001	Primary Cover	1		Except J, C, U, P, PG
	35	E302321-001	Fastener	2		Except J, C, U, P, PG
	36	E302764-001	Voltage Selector Cover	1		U, P, PG
⚠	37	QSR0085-008U	Voltage Selector	1		U, P, PG
	38	EXO085010R10S	Felt Spacer	2		
	39	E69589-008	Spacer	1		J
	40	E25575-030	Rear Panel	1		J, C
		E25575-026	Rear Panel	1		U, P, PG
		E25575-027	Rear Panel	1		E, EF, A, LGI, LBS
		E25575-028	Rear Panel	1		G, LE, LEF
	–	E303260-121	Rating Label	1		E, EF
	–	E303260-122	Rating Label	1		E, EF
	–	E303260-123	Rating Label	1		A
	–	E303260-124	Rating Label	1		A
	–	E303260-125	Rating Label	1		LE, LEF
	–	E303260-126	Rating Label	1		LE, LEF
	–	E303260-127	Rating Label	1		LGI
	41	E70078-001	GND, Terminal	1		
	42	SDSB3008M	Screw	2		J, C, U, P, PG
	43	SBST3006M	Screw	2		
	44	QMG0301-003	Fuse Holder	1		U, P, PG
⚠	45	QMF51A2-4R0S	Fuse	1		P
⚠		QMF51A2-2R0S	Fuse	1		U, PG
	46	E69291-001	Fuse Cover	1		U, P, PG
⚠	47	QHS3876-162	Cord Stopper	1		Except LBS
⚠		QHS3876-162BS	Cord Stopper	1		LBS
⚠	48	QMP1480-200	Power Cord	1		J, C
⚠		QMP7600-200	Power Cord	1		U, P, PG
⚠		QMP3900-200	Power Cord	1		E, EF, G, LE, LEF, LGI
⚠		QMP2560-244	Power Cord	1		A
⚠		QMP9017-008BS	Power Cord	1		LBS
	49	E73877-001	Push Button	1	Power Switch	
⚠	50	QMC0440-001	AC Socket	1		J, C
⚠		QMC0437-002	AC Socket	1		U, P, PG
	51	E74451-001	Sheet	1		
	52	E305399-001	Fastener	4		
	53	E69559-011	Spacer	2		Except G
	54	E69591-001	Spacer	2		Except G
	55	QMS6A40-021	Headphone Jack	1	J901	
	56	QST4231-E01	Push Switch	1	S901, 902	
	57	QSP2J21-E02	Push Switch	1	SW001	J, C
		QSP2J21-E04	Push Switch	1	SW001	Except J, C
	58	E49267-001	Origin Marking Label	1		LBS
	59	E70281-001	C. Label	1		J
		E70115-002	C. Label	1		E,EF,A,G,LE,LEF,LGI,LBS
	60	E3400-374	Spacer	1		J, C
		E3400-382	Spacer	1		Except J, C

⚠ : Safety Parts

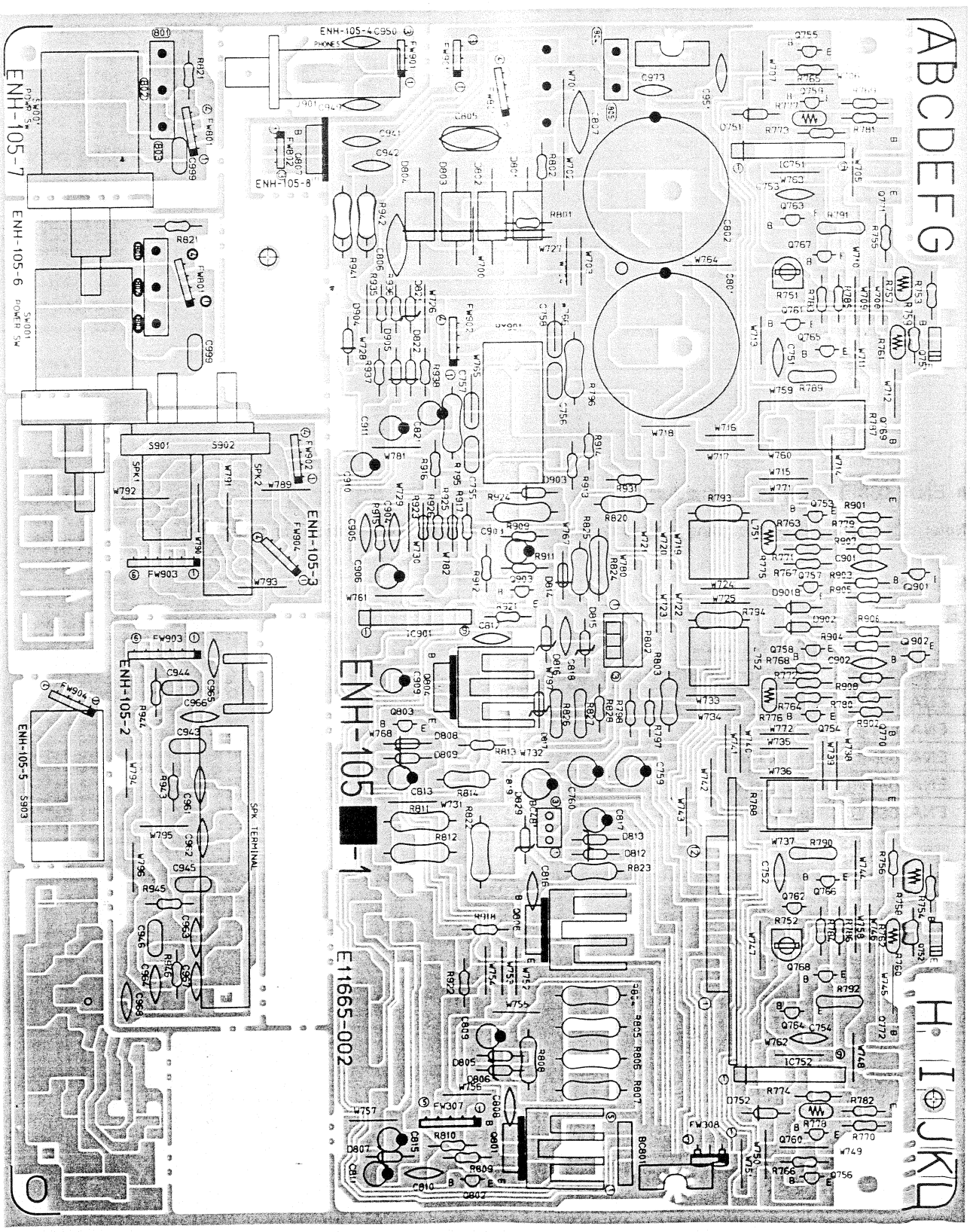
The Marks for Designated Areas.

J ..... U.S.A.
C ..... Canada
A ..... Australia
G ..... West Germany
E, EF ..... Europe
LE, LEF ..... Europe (with LW)
LGI ..... Italy (with LW)
LBS ..... U.K.
P, PG ..... U.S. Military Market
U ..... Other Countries
No mark indicates all areas.

Printed Circuit Board Ass'y and Parts List

■ ENH-105□ Power Amplifier PC Board Ass'y

Note: ENH-105□ Varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-105 [A]	U.S.A.
ENH-105 [B]	Canada
ENH-105 [C]	U.S. Military Market & Other Countries
ENH-105 [D]	Australia, Europe, U.K., Italy
ENH-105 [F]	West Germany

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	Q751	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q752	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q753	2SC945A(P,Q)	SILICON	NEC	
	Q754	2SC945A(P,Q)	SILICON	NEC	
	Q755	2SA733A(P,Q)	SILICON	NEC	
	Q756	2SA733A(P,Q)	SILICON	NEC	
	Q757	2SC945A(P,Q)	SILICON	NEC	
	Q758	2SC945A(P,Q)	SILICON	NEC	
	Q759	2SA733A(P,Q)	SILICON	NEC	
	Q760	2SA733A(P,Q)	SILICON	NEC	
	Q761	2SC1775AV(E)	SILICON	HITACHI	
	Q762	2SC1775AV(E)	SILICON	HITACHI	
	Q763	2SA872AV(E)	SILICON	HITACHI	
	Q764	2SA872AV(E)	SILICON	HITACHI	
	Q765	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q766	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q767	2SA965(O,Y)	SILICON	TOSHIBA	
	Q768	2SA965(O,Y)	SILICON	TOSHIBA	
	Q769	2SC3854LF(O,Y)	SILICON	SANKEN	
	Q770	2SC3854LF(O,Y)	SILICON	SANKEN	
	Q771	2SA1490LF(O,Y)	SILICON	SANKEN	
	Q772	2SA1490LF(O,Y)	SILICON	SANKEN	
	Q801	2SD1666(R,S)	SILICON	SANYO	
	Q802	2SC945A(P,Q)	SILICON	NEC	
	Q803	2SC945A(P,Q)	SILICON	NEC	
	Q804	2SD1666(R,S)	SILICON	SANYO	
	Q806	2SB1133(R,S)	SILICON	SANYO	
	Q807	2SB1133(R,S)	SILICON	SANYO	
	Q901	2SC1775AV(E,F)	SILICON	HITACHI	
	Q902	2SC1775AV(E,F)	SILICON	HITACHI	
	Q903	2SA872AV(E,F)	SILICON	HITACHI	

ICs

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	IC751	VC5022-2	I.C.	SANYO	
	IC752	VC5022-2	I.C.	SANYO	
	IC901	TA7317P	I.C.	TOSHIBA	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D751	1S2473	SILICON	ROHM	
	D752	1S2473	SILICON	ROHM	
	D801	S3V20F	SILICON	SHINDENGEN	A
	D801	S3V20F	SILICON	SHINDENGEN	B
	D801	S3V20F	SILICON	SHINDENGEN	C
	D801	S3V20F	SILICON	SHINDENGEN	D
	D801	30DF2SFC	SILICON	NIHONINTER	F
	D802	S3V20F	SILICON	SHINDENGEN	A
	D802	S3V20F	SILICON	SHINDENGEN	B
	D802	S3V20F	SILICON	SHINDENGEN	C

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D802	S3V20F	SILICON	SHINDENGEN	D
	D802	30DF2SFC	SILICON	NIHONINTER	F
	D803	S3V20F	SILICON	SHINDENGEN	A
	D803	S3V20F	SILICON	SHINDENGEN	B
	D803	S3V20F	SILICON	SHINDENGEN	C
	D803	S3V20F	SILICON	SHINDENGEN	D
	D803	30DF2SFC	SILICON	NIHONINTER	F
	D804	S3V20F	SILICON	SHINDENGEN	A
	D804	S3V20F	SILICON	SHINDENGEN	B
	D804	S3V20F	SILICON	SHINDENGEN	C
	D804	S3V20F	SILICON	SHINDENGEN	D
	D804	30DF2SFC	SILICON	NIHONINTER	F
	D805	1S2473	SILICON	ROHM	
	D806	RD16EB3	ZENER	NEC	
	D807	RD5.6EB3	ZENER	NEC	
	D808	1S2473	SILICON	ROHM	D
	D808	1S2473	SILICON	ROHM	F
	D809	RD15EB3	ZENER	NEC	
	D812	1S2473	SILICON	ROHM	
	D813	RD16EB3	ZENER	NEC	
	D814	1S2473	SILICON	ROHM	D
	D814	1S2473	SILICON	ROHM	F
	D815	RD12EB3	ZENER	NEC	
	D816	RD13EB3	ZENER	NEC	
	D821	RD5.1EB2	ZENER	NEC	
	D822	1S2473	SILICON	ROHM	
	D829	RD4.7EB2	ZENER	NEC	D
	D829	RD4.7EB2	ZENER	NEC	F
	D901	1S2473	SILICON	ROHM	
	D902	1S2473	SILICON	ROHM	
	D903	1S2473	SILICON	ROHM	
	D904	1S2473	SILICON	ROHM	
	D905	1S2473	SILICON	ROHM	

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C751	QCS32HJ-470	47PF	500V	CERAMIC	
	C752	QCS32HJ-470	47PF	500V	CERAMIC	
	C753	QCS32HJ-470	47PF	500V	CERAMIC	
	C754	QCS32HJ-470	47PF	500V	CERAMIC	
	C755	QFN81HK-223	0.022MF	50V	MYLAR	A
	C755	QFN81HK-223	0.022MF	50V	MYLAR	C
	C755	QFN81HK-473	0.047MF	50V	MYLAR	B
	C755	QFN81HK-473	0.047MF	50V	MYLAR	D
	C755	QFN81HK-473	0.047MF	50V	MYLAR	F
	C756	QFN81HK-223	0.022MF	50V	MYLAR	A
	C756	QFN81HK-223	0.022MF	50V	MYLAR	C
	C756	QFN81HK-473	0.047MF	50V	MYLAR	B
	C756	QFN81HK-473	0.047MF	50V	MYLAR	D
	C756	QFN81HK-473	0.047MF	50V	MYLAR	F
	C757	QFN81HK-473	0.047MF	50V	MYLAR	B
	C757	QFN81HK-473	0.047MF	50V	MYLAR	D
	C757	QFN81HK-473	0.047MF	50V	MYLAR	F
	C758	QFN81HK-473	0.047MF	50V	MYLAR	B
	C758	QFN81HK-473	0.047MF	50V	MYLAR	D
	C758	QFN81HK-473	0.047MF	50V	MYLAR	F
	C759	QETB1JM-476E	47MF	63V	ELECTRO	
	C760	QETB1JM-476E	47MF	63V	ELECTRO	
	C801	QEZ0075-878E	8700MF	56V	ELECTRO	
	C802	QEZ0075-878E	8700MF	56V	ELECTRO	
	C805	QCE22HP-103	0.01MF	500V	CERAMIC	A
	C805	QCE22HP-103	0.01MF	500V	CERAMIC	B
	C805	QCE22HP-103	0.01MF	500V	CERAMIC	C
	C805	QFH42EK-104	0.1MF	250V	M.MYLAR	D
	C806	QCE22HP-103	0.01MF	500V	CERAMIC	
	C807	QCE22HP-103	0.01MF	500V	CERAMIC	
	C808	QCF21HP-472	4700PF	50V	CERAMIC	
	C809	QETB1EM-227	220MF	25V	ELECTRO	
	C810	QCF21HP-472	4700PF	50V	CERAMIC	
	C811	QETB1CM-476	47MF	16V	ELECTRO	
	C812	QCF21HP-472	4700PF	50V	CERAMIC	
	C813	QETB1EM-107	100MF	25V	ELECTRO	
	C816	QCF21HP-472	4700PF	50V	CERAMIC	
	C817	QETB1EM-227	220MF	25V	ELECTRO	
	C818	QCF21HP-472	4700PF	50V	CERAMIC	
	C819	QETB1HM-476	47MF	50V	ELECTRO	
	C821	QEK61EM-106	10MF	25V	ELECTRO	
	C901	QCF21HP-223	0.022MF	50V	CERAMIC	
	C902	QCF21HP-223	0.022MF	50V	CERAMIC	
	C903	QETB1HM-226	22MF	50V	ELECTRO	
	C904	QCF21HP-223	0.022MF	50V	CERAMIC	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C905	QCY21HK-102	1000PF	50V	CERAMIC	
	C906	QEK61EM-476	47MF	25V	ELECTRO	
	C909	QETB1CM-226	22MF	16V	ELECTRO	
	C910	QEK61HM-105G	1MF	50V	ELECTRO	
	C911	QEK61HM-105G	1MF	50V	CERAMIC	F
	C941	QCS21HJ-101	100PF	50V	CERAMIC	F
	C942	QCS21HJ-101	100PF	50V	MYLAR	F
	C943	QFN81HK-103	0.01MF	50V	MYLAR	F
	C944	QFN81HK-103	0.01MF	50V	MYLAR	F
	C945	QFN81HK-103	0.01MF	50V	MYLAR	F
	C946	QFN81HK-103	330PF	50V	CERAMIC	F
	C949	QCS21HJ-331	330PF	50V	CERAMIC	F
	C950	QCS21HJ-331	100PF	50V	CERAMIC	F
	C961	QCS21HJ-101	100PF	50V	CERAMIC	F
	C962	QCS21HJ-101	100PF	50V	CERAMIC	F
	C963	QCS21HJ-101	100PF	50V	CERAMIC	F
	C964	QCS21HJ-101	330PF	50V	CERAMIC	F
	C965	QCS21HJ-331	330PF	50V	CERAMIC	F
	C966	QCS21HJ-331	330PF	50V	CERAMIC	F
	C967	QCS21HJ-331	330PF	50V	CERAMIC	F
	C968	QCS21HJ-331	330PF	50V	CERAMIC	F
	C973	QFN32AK-223	0.022MF	100V	MYLAR	F

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R751	QVZ3518-471	470	0.1W	VARIABLE	
	R752	QVZ3518-471	470	0.1W	VARIABLE	
	R753	QRD148J-471S	470	1/4W	CARBON	
	R754	QRD148J-471S	470	1/4W	CARBON	
	R755	QRD148J-101S	100	1/4W	CARBON	
	R756	QRD148J-101S	100	1/4W	THERMISTOR	D
	R757	ERT-D2WFL351S	350	1/4W	THERMISTOR	F
	R757	ERT-D2WFL351S	350	1/4W	THERMISTOR	D
	R758	ERT-D2WFL351S	350	1/4W	THERMISTOR	F
	R758	ERT-D2WFL351S	350	1/4W	CARBON	
	R759	QRD148J-391S	390	1/4W	CARBON	
	R760	QRD148J-391S	390	1/4W	THERMISTOR	D
	R761	ERT-D2WHL202S	2K	1/4W	THERMISTOR	F
	R761	ERT-D2WHL202S	2K	1/4W	THERMISTOR	D
	R762	ERT-D2WHL202S	2K	1/4W	THERMISTOR	F
	R762	ERT-D2WHL202S	2K	1/4W	CARBON	
	R763	QRD148J-102S	1K	1/4W	CARBON	
	R764	QRD148J-102S	1K	1/4W	CARBON	
	R765	QRD148J-102S	1K	1/4W	CARBON	
	R766	QRD148J-102S	1K	1/4W	CARBON	A
	R767	QRD148J-101S	100	1/4W	CARBON	B
	R767	QRD148J-101S	100	1/4W	CARBON	C
	R767	QRD148J-111S	110	1/4W	CARBON	D
	R767	QRD148J-111S	110	1/4W	CARBON	F
	R767	QRD148J-111S	110	1/4W	CARBON	A
	R768	QRD148J-101S	100	1/4W	CARBON	B
	R768	QRD148J-101S	100	1/4W	CARBON	C
	R768	QRD148J-111S	110	1/4W	CARBON	D
	R768	QRD148J-111S	110	1/4W	CARBON	F
	R768	QRD148J-111S	110	1/4W	CARBON	A
	R769	QRD148J-101S	100	1/4W	CARBON	B
	R769	QRD148J-101S	100	1/4W	CARBON	C
	R769	QRD148J-111S	110	1/4W	CARBON	D
	R769	QRD148J-111S	110	1/4W	CARBON	F
	R769	QRD148J-111S	110	1/4W	CARBON	A
	R770	QRD148J-101S	100	1/4W	CARBON	B
	R770	QRD148J-101S	100	1/4W	CARBON	C
	R770	QRD148J-111S	110	1/4W	CARBON	D
	R770	QRD148J-111S	110	1/4W	CARBON	F
	R770	QRD148J-111S	110	1/4W	CARBON	
	R779	QRD148J-820S	82	1/4W	CARBON	
	R780	QRD148J-820S	82	1/4W	CARBON	
	R781	QRD148J-820S	82	1/4W	CARBON	
	R782	QRD148J-820S	82	1/4W	UNF.CARBON	
⚠	R783	QRD145J-272S	2.7K	1/4W	UNF.CARBON	
⚠	R784	QRD145J-272S	2.7K	1/4W	UNF.CARBON	
⚠	R785	QRD145J-271S	270	1/4W	UNF.CARBON	
⚠	R786	QRD145J-271S	270	3W	CEMENT	
⚠	R787	ERF032K-R22	0.22	3W	CEMENT	
⚠	R788	ERF032K-R22	0.22	1/4W	UNF.CARBON	
⚠	R789	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R790	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R791	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R792	QRD14CJ-100S	10	1/4W	UNF.CARBON	A
⚠	R793	QRD125J-330	33	1/2W	UNF.CARBON	B

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R793	QRD125J-330	33	1/2W	UNF.CARBON	C
⚠	R793	QRD125J-330	33	1/2W	UNF.CARBON	D
⚠	R793	QRD125J-330	33	1/2W	UNF.CARBON	F
⚠	R793	QRD125J-470	47	1/2W	UNF.CARBON	A
⚠	R794	QRD125J-330	33	1/2W	UNF.CARBON	B
⚠	R794	QRD125J-330	33	1/2W	UNF.CARBON	C
⚠	R794	QRD125J-330	33	1/2W	UNF.CARBON	D
⚠	R794	QRD125J-330	33	1/2W	UNF.CARBON	F
⚠	R794	QRD125J-470	47	2W	O.M.FILM	
⚠	R795	QRG022J-100A	10	2W	O.M.FILM	
⚠	R796	QRG022J-100A	10	2W	O.M.FILM	
⚠	R797	QRD145J-330S	33	1/4W	UNF.CARBON	
⚠	R798	QRD145J-330S	33	1/4W	UNF.CARBON	
	R801	QRD148J-104S	100K	1/4W	CARBON	
	R802	QRD148J-104S	100K	1/4W	CARBON	
⚠	R803	QRD125J-2R2	2.2	1/2W	UNF.CARBON	
⚠	R804	QRG022J-331A	330	2W	O.M.FILM	
⚠	R805	QRG022J-331A	330	2W	O.M.FILM	
⚠	R806	QRG022J-331A	330	2W	O.M.FILM	
⚠	R807	QRG022J-331A	330	2W	O.M.FILM	
⚠	R808	QRD125J-472	4.7K	1/2W	UNF.CARBON	
⚠	R809	QRD145J-101S	100	1/4W	UNF.CARBON	A
⚠	R809	QRD145J-101S	100	1/4W	UNF.CARBON	B
⚠	R809	QRD145J-101S	100	1/4W	UNF.CARBON	C
⚠	R809	QRZ0062-101	100	1/4W	FUSIBLE	D
⚠	R809	QRZ0062-101	100	1/4W	FUSIBLE	F
	R810	QRD148J-152S	1.5K	1/4W	CARBON	
⚠	R811	QRG022J-331A	330	2W	O.M.FILM	
⚠	R812	QRG022J-331A	330	2W	O.M.FILM	
⚠	R813	QRD145J-101S	100	1/4W	UNF.CARBON	A
⚠	R813	QRD145J-101S	100	1/4W	UNF.CARBON	B
⚠	R813	QRD145J-101S	100	1/4W	UNF.CARBON	C
⚠	R813	QRZ0062-101	100	1/4W	FUSIBLE	D
⚠	R813	QRZ0062-101	100	1/4W	FUSIBLE	F
⚠	R814	QRD125J-472	4.7K	1/2W	UNF.CARBON	
⚠	R820	QRD125J-2R2	2.2	1/2W	UNF.CARBON	
	R821	QRD148J-912S	9.1K	1/4W	CARBON	
⚠	R822	QRG022J-680A	68	2W	O.M.FILM	
⚠	R823	QRD125J-472	4.7K	1/2W	UNF.CARBON	
⚠	R824	QRG022J-390A	39	2W	O.M.FILM	A
⚠	R824	QRG022J-390A	39	2W	O.M.FILM	B
⚠	R824	QRG022J-390A	39	2W	O.M.FILM	C
⚠	R824	QRX022J-4R7AM	4.7	2W	M.FILM	D
⚠	R824	QRX022J-4R7AM	4.7	2W	M.FILM	F
⚠	R825	QRD125J-332	3.3K	1/2W	UNF.CARBON	
⚠	R826	QRD14CJ-220S	22	1/4W	UNF.CARBON	A
⚠	R826	QRD14CJ-220S	22	1/4W	UNF.CARBON	B
⚠	R826	QRD14CJ-220S	22	1/4W	UNF.CARBON	C
⚠	R826	QRZ0077-220	22	1/4W	FUSIBLE	D
⚠	R826	QRZ0077-220	22	1/4W	FUSIBLE	F
⚠	R827	QRD14CJ-220S	22	1/4W	UNF.CARBON	A
⚠	R827	QRD14CJ-220S	22	1/4W	UNF.CARBON	B
⚠	R827	QRD14CJ-220S	22	1/4W	UNF.CARBON	C
⚠	R827	QRZ0077-220	22	1/4W	FUSIBLE	D
⚠	R827	QRZ0077-220	22	1/4W	FUSIBLE	F
	R901	QRD148J-681S	680	1/4W	CARBON	
	R902	QRD148J-681S	680	1/4W	CARBON	
	R903	QRD148J-562S	5.6K	1/4W	CARBON	
	R904	QRD148J-562S	5.6K	1/4W	CARBON	
	R905	QRD148J-123S	12K	1/4W	CARBON	
	R906	QRD148J-123S	12K	1/4W	CARBON	
	R907	QRD148J-152S	1.5K	1/4W	CARBON	
	R908	QRD148J-152S	1.5K	1/4W	CARBON	
	R909	QRD148J-103S	10K	1/4W	CARBON	
	R911	QRD148J-332S	3.3K	1/4W	CARBON	
	R912	QRD148J-473S	47K	1/4W	CARBON	
	R913	QRD148J-104S	100K	1/4W	CARBON	
	R914	QRD148J-823S	82K	1/4W	CARBON	
	R915	QRD148J-473S	47K	1/4W	CARBON	
	R916	QRD148J-563S	56K	1/4W	CARBON	
	R917	QRD148J-683S	68K	1/4W	CARBON	
	R918	QRD148J-392S	3.9K	1/4W	CARBON	
	R921	QRD148J-224S	220K	1/4W	CARBON	
	R922	QRD148J-562S	5.6K	2W	O.M.FILM	
⚠	R924	QRG022J-122A	1.2K	1/4W	CARBON	A
	R925	QRD148J-151S	150	1/4W	CARBON	B
	R925	QRD148J-151S	150	1/4W	CARBON	
	R926	QRD148J-820S	82	1/4W	UNF.CARBON	
⚠	R931	QRD145J-330S	33	1/4W	CARBON	
	R935	QRD148J-562S	5.6K	1/4W	CARBON	
	R936	QRD148J-822S	8.2K	1/4W	CARBON	
	R937	QRD148J-103S	10K	2W	O.M.FILM	
⚠	R941	QRG022J-271A	270	2W	O.M.FILM	
⚠	R942	QRG022J-271A	270	1/4W	FUSIBLE	F
⚠	R943	QRZ0062-100	10	1/4W	FUSIBLE	F
⚠	R944	QRZ0062-100	10	1/4W	FUSIBLE	F
⚠	R945	QRZ0062-100	10	1/4W	FUSIBLE	F
⚠	R946	QRZ0062-100	10	1/4W	FUSIBLE	F

⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMB90TV-801A	SPEAKER TERMINAL	
		E11665-002	CIRCUIT BOARD	A
		E11665-002	CIRCUIT BOARD	B
		E11665-002	CIRCUIT BOARD	C
		E11665-002	CIRCUIT BOARD	D
		E11665-002	CIRCUIT BOARD	F
		E304586-001	BRACKET	
		E304586-002	BRACKET	
		E304655-002	HEAT SINK	
		E67764-103	WRAPPING TERMINAL	A
		E67764-103	WRAPPING TERMINAL	B
		E67764-103	WRAPPING TERMINAL	C
		E67764-103	WRAPPING TERMINAL	D
		E67764-103	WRAPPING TERMINAL	F
		E70225-001	EARTH PLATE	F
		E70859-001	EARTH PLATE	
		E70945-H25	HEAT SINK	
		E70945-H25	HEAT SINK	
		E70945-H25B	HEAT SINK	
		E73525-001	SCREW	
		E73525-001	SCREW	
		SBSB3012CC	SCREW	
		SBSB3012CC	SCREW	
		SBSB3012CC	SCREW	
		SBSE3008CC	SCREW	
	J901	QMS6A40-021	HEADPHONE JACK	
	L751	EQL0101-1R2	INDUCTOR	
	L752	EQL0101-1R2	INDUCTOR	

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	P802	EMV7112-003	CONNECTOR	
	S901	QST4231-E01	PUSH SWITCH	
	S902	QST4231-E01	PUSH SWITCH	
	S903	QSS5C22-E03	SLIDE SWITCH	
	BC481	EWS013-242	SOCKET WIRE	
	BC801	EWS014-130	SOCKET WIRE	
	FW307	EWR35B-25KST	FLAT WIRE	
	FW308	EWR23C-30JN	FLAT WIRE	
	FW801	EWR34B-16SST	FLAT WIRE	
	FW802	EWR33B-13KST	FLAT WIRE	
	FW901	EWR33B-08SST	FLAT WIRE	
	FW902	EWR34B-16SST	FLAT WIRE	
	FW903	EWR36B-35SST	FLAT WIRE	
	FW904	EWR14B-40SS	FLAT WIRE	
	RY901	ESK5D24-218	RELAY	
	SW001	QSP2J21-E02	PUSH SWITCH	A
	SW001	QSP2J21-E02	PUSH SWITCH	B
	SW001	QSP2J21-E04	PUSH SWITCH	C
	SW001	QSP2J21-E04	PUSH SWITCH	D
	SW001	QSP2J21-E04	PUSH SWITCH	F

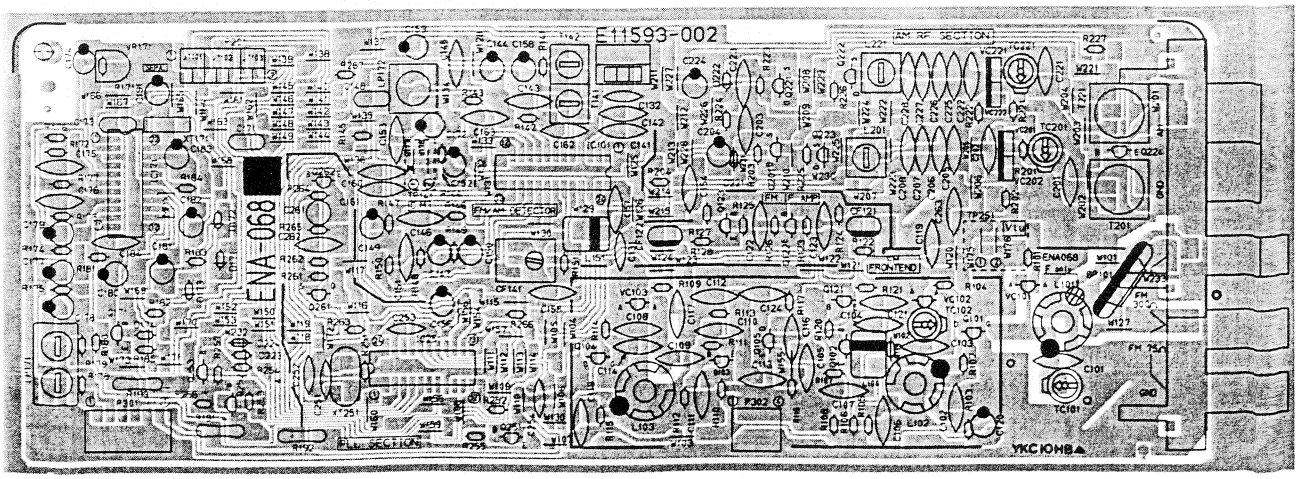
⚠ : SAFETY PARTS

■ ENA-068□ Tuner PC Board Ass'y

Note: ENA-068□ Varies according to the areas employed. See note (1) when placing an order.

Note (1)

PC Board Ass'y	Designated Areas
ENA-068 [A]	U.S.A. & Canada
ENA-068 [B]	U.S. Military Market & Other Countries
ENA-068 [C]	Australia
ENA-068 [D]	Europe
ENA-068 [E]	U.K. & Italy
ENA-068 [F]	Europe (LW)
ENA-068 [G]	West Germany



Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	Q101	2SK606(Q,R)	F.E.T	MATSUSHITA	C
	Q101	2SK606(Q,R)	F.E.T	MATSUSHITA	D
	Q101	2SK606(Q,R)	F.E.T	MATSUSHITA	E
	Q101	2SK606(Q,R)	F.E.T	MATSUSHITA	F
	Q101	2SK606(Q,R)	F.E.T	MATSUSHITA	G
	Q101	2SK606(Q,R,S)	F.E.T	MATSUSHITA	A
	Q101	2SK606(Q,R,S)	F.E.T	MATSUSHITA	B
	Q102	2SC535(B,C)	SILICON	HITACHI	
	Q103	2SC461(C)	SILICON	HITACHI	
	Q104	2SK606(Q,R)	F.E.T	MATSUSHITA	C
	Q104	2SK606(Q,R)	F.E.T	MATSUSHITA	D
	Q104	2SK606(Q,R)	F.E.T	MATSUSHITA	E
	Q104	2SK606(Q,R)	F.E.T	MATSUSHITA	F
	Q104	2SK606(Q,R)	F.E.T	MATSUSHITA	G
	Q104	2SK606(Q,R,S)	F.E.T	MATSUSHITA	A
	Q104	2SK606(Q,R,S)	F.E.T	MATSUSHITA	B
	Q105	2SK606(Q,R)	F.E.T	MATSUSHITA	G
	Q121	2SC461(B,C)	SILICON	HITACHI	
	Q122	2SC535(B,C)	SILICON	HITACHI	
	Q123	2SC461(B,C)	SILICON	HITACHI	
	Q171	DTC114YS	SILICON	ROHM	
	Q201	2SK301(Q,R)	F.E.T	MATSUSHITA	
	Q221	2SK301(Q,R)	F.E.T	MATSUSHITA	E
	Q221	2SK301(Q,R)	F.E.T	MATSUSHITA	F
	Q222	2SK301(P,Q)	F.E.T	MATSUSHITA	E
	Q222	2SK301(P,Q)	F.E.T	MATSUSHITA	F
	Q223	2SK301(P,Q)	F.E.T	MATSUSHITA	E
	Q223	2SK301(P,Q)	F.E.T	MATSUSHITA	F
	Q224	2SD1302(S,T)	SILICON	MATSUSHITA	E
	Q224	2SD1302(S,T)	SILICON	MATSUSHITA	F
	Q251	2SA564A(R,S)	SILICON	MATSUSHITA	
	Q252	2SA564A(R,S)	SILICON	MATSUSHITA	
	Q253	2SA564A(R,S)	SILICON	MATSUSHITA	E
	Q253	2SA564A(R,S)	SILICON	MATSUSHITA	F
	Q261	2SK301(Q1)	F.E.T	MATSUSHITA	
	Q262	2SC458(D)	SILICON	HITACHI	

ICs

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	IC101	LA1266A	I.C.	SANYO	
	IC171	LA3401	I.C.	SANYO	
	IC251	LC7217	I.C.	SANYO	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D171	1SS119	SILICON	HITACHI	
	D172	1SS119	SILICON	HITACHI	
	D173	1SS119	SILICON	HITACHI	
	D174	1SS119	SILICON	HITACHI	
	D221	1SS119	SILICON	HITACHI	E
	D221	1SS119	SILICON	HITACHI	F
	D222	1SS119	SILICON	HITACHI	E
	D222	1SS119	SILICON	HITACHI	F
	D223	1SS119	SILICON	HITACHI	E
	D223	1SS119	SILICON	HITACHI	F
	D224	1SS119	SILICON	HITACHI	E
	D224	1SS119	SILICON	HITACHI	F
	VC101	SVC202(AB)	VARICAP	SANYO	
	VC102	SVC202(AB)	VARICAP	SANYO	
	VC103	SVC202(AB)	VARICAP	SANYO	
	VC201	KV1236Z	VARICAP	TOKO	
	VC202	KV1236Z	VARICAP	TOKO	
	VC221	KV1236Z	VARICAP	TOKO	E
	VC221	KV1236Z	VARICAP	TOKO	F
	VC222	KV1236Z	VARICAP	TOKO	E
	VC222	KV1236Z	VARICAP	TOKO	F

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C101	QCS21HJ-3R0	3PF	50V	CERAMIC	G
	C102	QCF21HP-102	1000PF	50V	CERAMIC	
	C103	QCS21HJ-5R0	5PF	50V	CERAMIC	
	C104	QCS21HJ-2R0	2PF	50V	CERAMIC	
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	A
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	B
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	C
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	D
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	E
	C105	QCS21HJ-2R0	2PF	50V	CERAMIC	F
	C106	QCS21HJ-151	150PF	50V	CERAMIC	
	C107	QCF21HP-103	0.01MF	50V	CERAMIC	
	C108	QCT26TH-100	10PF	50V	CERAMIC	
	C109	QCT26CH-7R0	7PF	50V	CERAMIC	
	C110	QCT26CH-220	22PF	50V	CERAMIC	
	C111	QCF21HP-103	0.01MF	50V	CERAMIC	
	C112	QCT26CH-100	10PF	50V	CERAMIC	
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	A
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	B
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	C
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	D
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	E
	C113	QCS21HJ-2R0	2PF	50V	CERAMIC	F
	C113	QCS21HJ-4R0	4PF	50V	CERAMIC	G
	C114	QCT26CH-2R0	2PF	50V	CERAMIC	
	C116	QCS21HJ-4R0	4PF	50V	CERAMIC	G
	C117	QCC21EM-473	0.047MF	25V	CERAMIC	
	C118	QCF21HP-103	0.01MF	50V	CERAMIC	
	C119	QCS21HJ-101	100PF	50V	CERAMIC	G
	C120	QETB1EM-226	22MF	25V	ELECTRO	
	C121	QCS21HJ-220	22PF	50V	CERAMIC	
	C122	QCF21HP-223	0.022MF	50V	CERAMIC	
	C123	QCF21HP-223	0.022MF	50V	CERAMIC	
	C131	QCS21HJ-101	100PF	50V	CERAMIC	
	C141	QCF21HP-223	0.022MF	50V	CERAMIC	
	C142	QCC21EM-223	0.022MF	25V	CERAMIC	
	C143	QCF21HP-223	0.022MF	50V	CERAMIC	
	C144	QETB1HM-105	1MF	50V	ELECTRO	
	C145	QCS21HJ-101	100PF	50V	CERAMIC	C
	C145	QCS21HJ-101	100PF	50V	CERAMIC	D
	C145	QCS21HJ-101	100PF	50V	CERAMIC	E
	C145	QCS21HJ-101	100PF	50V	CERAMIC	F
	C145	QCS21HJ-101	100PF	50V	CERAMIC	G
	C145	QCS21HJ-221	220PF	50V	CERAMIC	A
	C145	QCS21HJ-221	220PF	50V	CERAMIC	B
	C146	QCF21HP-223	0.022MF	50V	CERAMIC	
	C147	QETB1HM-225	2.2MF	50V	ELECTRO	
	C148	QFN81HK-332	3300PF	50V	MYLAR	
	C149	QETB1HM-225	2.2MF	50V	ELECTRO	
	C150	QETB1HM-475	4.7MF	50V	ELECTRO	
	C151	QCF21HP-223	0.022MF	50V	CERAMIC	
	C152	QETB1EM-106	10MF	25V	ELECTRO	
	C153	QCF21HP-223	0.022MF	50V	CERAMIC	
	C154	QCF21HP-223	0.022MF	50V	CERAMIC	
	C155	QCF21HP-223	0.022MF	50V	CERAMIC	
	C156	QETB1EM-106	10MF	25V	ELECTRO	
	C157	QCY21HK-102	1000PF	50V	CERAMIC	
	C158	QETB1EM-226	22MF	25V	ELECTRO	
	C159	QETB1HM-475	4.7MF	50V	ELECTRO	
	C160	QCS21HJ-101	100PF	50V	CERAMIC	
	C161	QCS21HJ-101	100PF	50V	CERAMIC	
	C162	QCC21EM-223	0.022MF	25V	CERAMIC	
	C163	QCF21HP-223	0.022MF	50V	CERAMIC	
	C171	QFN81HK-223	0.022MF	50V	MYLAR	C
	C171	QFN81HK-223	0.022MF	50V	MYLAR	D
	C171	QFN81HK-223	0.022MF	50V	MYLAR	E
	C171	QFN81HK-223	0.022MF	50V	MYLAR	F
	C171	QFN81HK-223	0.022MF	50V	MYLAR	G
	C171	QFN81HK-333	0.033MF	50V	MYLAR	A
	C171	QFN81HK-333	0.033MF	50V	MYLAR	B
	C172	QETB1EM-106	10MF	25V	ELECTRO	
	C173	QFN81HK-473	0.047MF	50V	MYLAR	
	C174	QETB1EM-106	10MF	25V	ELECTRO	
	C175	QCS21HJ-271	270PF	50V	CERAMIC	C
	C175	QCS21HJ-271	270PF	50V	CERAMIC	D
	C175	QCS21HJ-271	270PF	50V	CERAMIC	E
	C175	QCS21HJ-271	270PF	50V	CERAMIC	F
	C175	QCS21HJ-271	270PF	50V	CERAMIC	G
	C175	QCS21HJ-561	560PF	50V	CERAMIC	A
	C175	QCS21HJ-561	560PF	50V	CERAMIC	B
	C176	QCS21HJ-271	270PF	50V	CERAMIC	C
	C176	QCS21HJ-271	270PF	50V	CERAMIC	D
	C176	QCS21HJ-271	270PF	50V	CERAMIC	E
	C176	QCS21HJ-271	270PF	50V	CERAMIC	F
	C176	QCS21HJ-271	270PF	50V	CERAMIC	G
	C176	QCS21HJ-561	560PF	50V	CERAMIC	A
	C176	QCS21HJ-561	560PF	50V	CERAMIC	B
	C177	QETB1HM-225	2.2MF	50V	ELECTRO	
	C178	QETB1HM-225	2.2MF	50V	ELECTRO	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C179	QETB1HM-225	2.2MF	50V	ELECTRO	
	C180	QETB1HM-105	1MF	50V	ELECTRO	
	C181	QETB1HM-105	1MF	50V	ELECTRO	
	C182	QETB1HM-474	0.47MF	50V	ELECTRO	
	C183	QETB1HM-225	2.2MF	50V	ELECTRO	
	C184	QCY21HK-102	1000PF	50V	CERAMIC	
	C191	QETB1EM-226	22MF	25V	ELECTRO	
	C202	QCC21EM-223	0.022MF	25V	CERAMIC	
	C203	QCS21HJ-561	560PF	50V	CERAMIC	
	C204	QETB1EM-226	22MF	25V	ELECTRO	
	C205	QCT26CH-100	10PF	50V	CERAMIC	
	C206	QCT26CH-100	10PF	50V	CERAMIC	
	C207	QCT26CH-221	220PF	50V	CERAMIC	
	C208	QCT26CH-271	270PF	50V	CERAMIC	
	C221	QCS21HJ-330	33PF	50V	CERAMIC	E
	C221	QCS21HJ-330	33PF	50V	CERAMIC	F
	C222	QCC21EM-473	0.047MF	25V	CERAMIC	E
	C222	QCC21EM-473	0.047MF	25V	CERAMIC	F
	C223	QCF21HP-103	0.01MF	50V	CERAMIC	E
	C223	QCF21HP-103	0.01MF	50V	CERAMIC	F
	C224	QETB1EM-226	22MF	25V	ELECTRO	E
	C224	QETB1EM-226	22MF	25V	ELECTRO	F
	C225	QCT26CH-680	68PF	50V	CERAMIC	E
	C225	QCT26CH-680	68PF	50V	CERAMIC	F
	C226	QCT26CH-7R0	7PF	50V	CERAMIC	E
	C226	QCT26CH-7R0	7PF	50V	CERAMIC	F
	C227	QCT26CH-150	15PF	50V	CERAMIC	E
	C227	QCT26CH-150	15PF	50V	CERAMIC	F
	C228	QCT26CH-151	150PF	50V	CERAMIC	E
	C228	QCT26CH-151	150PF	50V	CERAMIC	F
	C251	QCS21HJ-180	18PF	50V	CERAMIC	
	C252	QCS21HJ-180	18PF	50V	CERAMIC	
	C253	QCC21EM-473	0.047MF	25V	CERAMIC	
	C254	QCF21HP-103	0.01MF	50V	CERAMIC	
	C261	QEN51HM-474	0.47MF	50V	NON POLE	
	C262	QCY21HK-102	1000PF	50V	CERAMIC	
	C263	QCF21HP-223	0.022MF	50V	CERAMIC	
	TC101	ENZ1003-003			TRIMMER	
	TC102	ENZ1003-003			TRIMMER	
	TC201	ENZ1003-006			TRIMMER	
	TC221	ENZ1003-006			TRIMMER	E
	TC221	ENZ1003-006			TRIMMER	F

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R101	QRD167J-473	47K	1/6W	CARBON	
	R102	QRD167J-330	33	1/6W	CARBON	
	R103	QRD167J-221	220	1/6W	CARBON	
	R104	QRD167J-473	47K	1/6W	CARBON	
	R105	QRD167J-332	3.3K	1/6W	CARBON	
	R106	QRD167J-223	22K	1/6W	CARBON	
	R107	QRD167J-102	1K	1/6W	CARBON	
	R108	QRD167J-102	1K	1/6W	CARBON	
	R109	QRD167J-562	5.6K	1/6W	CARBON	
	R110	QRD167J-561	560	1/6W	CARBON	
	R111	QRD167J-103	10K	1/6W	CARBON	
	R112	QRD167J-682	6.8K	1/6W	CARBON	
	R113	QRD167J-222	2.2K	1/6W	CARBON	
	R114	QRD167J-224	220K	1/6W	CARBON	
	R115	QRD167J-331	330	1/6W	CARBON	
	R116	QRD167J-224	220K	1/6W	CARBON	G
	R117	QRD167J-331	330	1/6W	CARBON	G
	R120	QRD167J-330	33	1/6W	CARBON	
	R121	QRD167J-332	3.3K	1/6W	CARBON	
	R122	QRD167J-221	220	1/6W	CARBON	
	R123	QRD167J-272	2.7K	1/6W	CARBON	
	R124	QRD167J-391	390	1/6W	CARBON	
	R125	QRD167J-102	1K	1/6W	CARBON	
	R126	QRD167J-681	680	1/6W	CARBON	
	R127	QRD167J-332	3.3K	1/6W	CARBON	
	R128	QRD167J-221	220	1/6W	CARBON	
	R141	QRD167J-822	8.2K	1/6W	CARBON	
	R142	QRD167J-102	1K	1/6W	CARBON	
	R143	QRD167J-183	18K	1/6W	CARBON	A
	R143	QRD167J-333	33K	1/6W	CARBON	B
	R143	QRD167J-333	33K	1/6W	CARBON	C
	R143	QRD167J-333	33K	1/6W	CARBON	D
	R143	QRD167J-333	33K	1/6W	CARBON	E
	R143	QRD167J-333	33K	1/6W	CARBON	F
	R143	QRD167J-333	33K	1/6W	CARBON	G

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R144	QRD167J-561	560	1/6W	CARBON	
	R145	QRD167J-103	10K	1/6W	CARBON	A
	R145	QRD167J-103	10K	1/6W	CARBON	B
	R145	QRD167J-333	33K	1/6W	CARBON	C
	R145	QRD167J-333	33K	1/6W	CARBON	D
	R145	QRD167J-333	33K	1/6W	CARBON	E
	R145	QRD167J-333	33K	1/6W	CARBON	F
	R145	QRD167J-333	33K	1/6W	CARBON	G
	R146	QRD167J-221	220	1/6W	CARBON	
	R147	QRD167J-103	10K	1/6W	CARBON	
	R148	QRD167J-223	22K	1/6W	CARBON	
	R149	QRD167J-473	47K	1/6W	CARBON	
	R150	QRD167J-103	10K	1/6W	CARBON	
	R151	QRD167J-334	330K	1/6W	CARBON	
	R171	QRD167J-393	39K	1/6W	CARBON	A
	R171	QRD167J-393	39K	1/6W	CARBON	B
	R172	QRD167J-134	130K	1/6W	CARBON	A
	R172	QRD167J-134	130K	1/6W	CARBON	B
	R172	QRD167J-184	180K	1/6W	CARBON	C
	R172	QRD167J-184	180K	1/6W	CARBON	D
	R172	QRD167J-184	180K	1/6W	CARBON	E
	R172	QRD167J-184	180K	1/6W	CARBON	F
	R172	QRD167J-184	180K	1/6W	CARBON	G
	R173	QRD167J-134	130K	1/6W	CARBON	A
	R173	QRD167J-134	130K	1/6W	CARBON	B
	R173	QRD167J-184	180K	1/6W	CARBON	C
	R173	QRD167J-184	180K	1/6W	CARBON	D
	R173	QRD167J-184	180K	1/6W	CARBON	E
	R173	QRD167J-184	180K	1/6W	CARBON	F
	R173	QRD167J-184	180K	1/6W	CARBON	G
	R174	QRD167J-332	3.3K	1/6W	CARBON	
	R175	QRD167J-332	3.3K	1/6W	CARBON	
	R176	QRD167J-184	180K	1/6W	CARBON	A
	R176	QRD167J-184	180K	1/6W	CARBON	B
	R176	QRD167J-274	270K	1/6W	CARBON	C
	R176	QRD167J-274	270K	1/6W	CARBON	D
	R176	QRD167J-274	270K	1/6W	CARBON	E
	R176	QRD167J-274	270K	1/6W	CARBON	F
	R176	QRD167J-274	270K	1/6W	CARBON	G
	R177	QRD167J-184	180K	1/6W	CARBON	A
	R177	QRD167J-184	180K	1/6W	CARBON	B
	R177	QRD167J-274	270K	1/6W	CARBON	C
	R177	QRD167J-274	270K	1/6W	CARBON	D
	R177	QRD167J-274	270K	1/6W	CARBON	E
	R177	QRD167J-274	270K	1/6W	CARBON	F
	R177	QRD167J-274	270K	1/6W	CARBON	G
	R178	QRD167J-682	6.8K	1/6W	CARBON	
	R179	QRD167J-682	6.8K	1/6W	CARBON	
	R180	QRD167J-103	10K	1/6W	CARBON	
	R181	QRD167J-103	10K	1/6W	CARBON	
	R182	QRD167J-103	10K	1/6W	CARBON	
	R183	QRD167J-103	10K	1/6W	CARBON	
	R184	QRD167J-562	5.6K	1/6W	CARBON	
	R185	QRD167J-562	5.6K	1/6W	CARBON	
⚠	R191	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R191	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R191	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R191	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R191	QRZ0077-680	68	1/4W	FUSIBLE	E
⚠	R191	QRZ0077-680	68	1/4W	FUSIBLE	F
⚠	R191	QRZ0077-680	68	1/4W	FUSIBLE	G
⚠	R192	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R192	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R192	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R192	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R192	QRZ0077-680	68	1/4W	FUSIBLE	E
⚠	R192	QRZ0077-680	68	1/4W	FUSIBLE	F
⚠	R192	QRZ0077-680	68	1/4W	FUSIBLE	G
⚠	R193	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R193	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R193	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R193	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R193	QRZ0077-680	68	1/4W	FUSIBLE	E
⚠	R193	QRZ0077-680	68	1/4W	FUSIBLE	F
⚠	R193	QRZ0077-680	68	1/4W	FUSIBLE	G
	R201	QRD167J-103	10K	1/6W	CARBON	
	R202	QRD167J-473	47K	1/6W	CARBON	
	R203	QRD167J-331	330	1/6W	CARBON	
	R204	QRD167J-330	33	1/6W	CARBON	
	R221	QRD167J-103	10K	1/6W	CARBON	E
	R221	QRD167J-103	10K	1/6W	CARBON	F
	R222	QRD167J-473	47K	1/6W	CARBON	E
	R222	QRD167J-473	47K	1/6W	CARBON	F
	R223	QRD167J-331	330	1/6W	CARBON	E
	R223	QRD167J-331	330	1/6W	CARBON	F
	R224	QRD167J-103	10K	1/6W	CARBON	E
	R224	QRD167J-103	10K	1/6W	CARBON	F
	R225	QRD167J-103	10K	1/6W	CARBON	E

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	R225	QRD167J-103	10K	1/6W CARBON	F
	R226	QRD167J-103	10K	1/6W CARBON	E
	R226	QRD167J-103	10K	1/6W CARBON	F
	R227	QRD167J-472	4.7K	1/6W CARBON	E
	R227	QRD167J-472	4.7K	1/6W CARBON	F
	R251	QRD167J-473	47K	1/6W CARBON	
	R252	QRD167J-103	10K	1/6W CARBON	
	R253	QRD167J-103	10K	1/6W CARBON	
	R254	QRD167J-103	10K	1/6W CARBON	E
	R254	QRD167J-103	10K	1/6W CARBON	F
	R255	QRD167J-473	47K	1/6W CARBON	
	R256	QRD167J-473	47K	1/6W CARBON	
	R257	QRD167J-473	47K	1/6W CARBON	E
	R257	QRD167J-473	47K	1/6W CARBON	F
	R261	QRD167J-222	2.2K	1/6W CARBON	
	R262	QRD167J-271	270	1/6W CARBON	
	R263	QRD167J-103	10K	1/6W CARBON	A
	R263	QRD167J-103	10K	1/6W CARBON	B
	R263	QRD167J-103	10K	1/6W CARBON	C
	R263	QRD167J-103	10K	1/6W CARBON	D
	R263	QRD167J-103	10K	1/6W CARBON	G
	R263	QRD167J-222	2.2K	1/6W CARBON	E
	R263	QRD167J-222	2.2K	1/6W CARBON	F
	R264	QRD167J-472	4.7K	1/6W CARBON	
	R265	QRD167J-332	3.3K	1/6W CARBON	A
	R265	QRD167J-332	3.3K	1/6W CARBON	B
	R265	QRD167J-332	3.3K	1/6W CARBON	C
	R265	QRD167J-332	3.3K	1/6W CARBON	D
	R265	QRD167J-332	3.3K	1/6W CARBON	G
	R265	QRD167J-822	8.2K	1/6W CARBON	E
	R265	QRD167J-822	8.2K	1/6W CARBON	F
	R266	QRD167J-222	2.2K	1/6W CARBON	
	R267	QRD167J-154	150K	1/6W CARBON	
	VR171	QVZ3518-104	100K	0.1W VARIABLE	C
	VR171	QVZ3518-104	100K	0.1W VARIABLE	D
	VR171	QVZ3518-104	100K	0.1W VARIABLE	E
	VR171	QVZ3518-104	100K	0.1W VARIABLE	F
	VR171	QVZ3518-104	100K	0.1W VARIABLE	G

⚠ : SAFETY PARTS

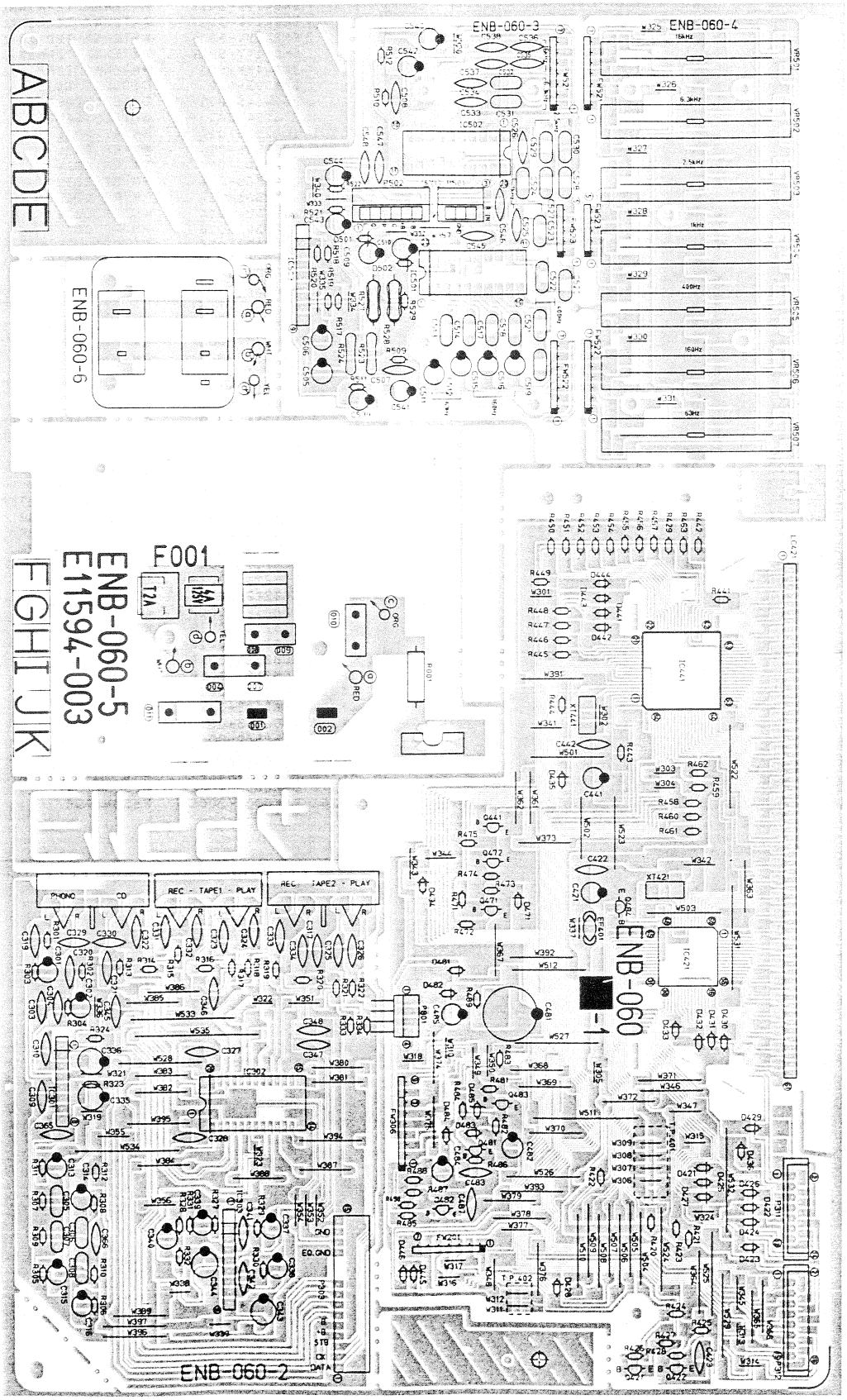
Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMB41YV-301K	ANTENNA TERMINAL	
		EMB41YV-501K	ANTENNA TERMINAL	A
		EMB41YV-501K	ANTENNA TERMINAL	B
		EMB41YV-501K	ANTENNA TERMINAL	C
		EMB41YV-501K	ANTENNA TERMINAL	D
		EMB41YV-501K	ANTENNA TERMINAL	E
		E11593-002	CIRCUIT BOARD	
		E304645-001	SHIELD CASE	
		E74134-001	SHIELD CASE	G
	L101	EQR2306-014	FM RF COIL	A
	L101	EQR2306-014	FM RF COIL	B
	L101	EQR2306-014	FM RF COIL	C
	L101	EQR2306-014	FM RF COIL	D
	L101	EQR2306-014	FM RF COIL	E
	L101	EQR2306-014	FM RF COIL	F
	L101	EQR2306-016	FM RF COIL	G
	L102	EQR2106-014	RF COIL	
	L103	EQR2406-004	FM OSC COIL	
	L104	EQL3001-1R5K	INDUCTOR	
	L105	EQL3001-1R5K	INDUCTOR	G
	L151	EQL3001-102K	INDUCTOR	
	L201	EQR1207-009	MW OSC COIL	
	L221	EQR1307-002	LW OSC COIL	E
	L221	EQR1307-002	LW OSC COIL	F
	P201	EMV7112-007	CONNECTOR	
	P301	EMV7125-007R	CONNECTOR	
	P302	EMV7125-004R	CONNECTOR	
	T141	EQT2140-012	I.F. TRANSFORMER	
	T142	EQT2140-013	I.F. TRANSFORMER	
	T201	EQR1111-006	AM RF COIL	
	T221	EQR1111-005	AM RF COIL	E
	T221	EQR1111-005	AM RF COIL	F
	BP101	EQF0201-006	BAND PASS FILTER	G
	CF121	ECB2118-001R	CERAMIC FILTER	C
	CF121	ECB2118-001R	CERAMIC FILTER	D
	CF121	ECB2118-001R	CERAMIC FILTER	E
	CF121	ECB2118-001R	CERAMIC FILTER	F
	CF121	ECB2118-001R	CERAMIC FILTER	G
	CF121	ECB2123-001R	CERAMIC FILTER	A
	CF121	ECB2123-001R	CERAMIC FILTER	B
	CF122	ECB2118-001R	CERAMIC FILTER	C
	CF122	ECB2118-001R	CERAMIC FILTER	D
	CF122	ECB2118-001R	CERAMIC FILTER	E
	CF122	ECB2118-001R	CERAMIC FILTER	F
	CF122	ECB2118-001R	CERAMIC FILTER	G
	CF122	ECB2123-001R	CERAMIC FILTER	A
	CF122	ECB2123-001R	CERAMIC FILTER	B
	CF141	ECB1560-006	CERAMIC FILTER	
	LP171	EQF0101-002	LOW PASS FILTER	
	LP172	EQF0102-001	LOW PASS FILTER	G
	XT171	ECX0000-456KR	RESONATOR	
	XT251	ECX0007-200KC	RESONATOR	

⚠ : SAFETY PARTS

■ ENB-060□ Control & Display PC Board Ass'y

Note: ENB-060□ Varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENB-060 [A]	U.S.A. & Canada
ENB-060 [B]	U.S. Military Market & Other Countries
ENB-060 [C]	Australia & Europe
ENB-060 [D]	Europe (LW)
ENB-060 [E] BS	U.K. (LW)
ENB-060 [F]	Wast Germany
ENB-060 [H]	Italy

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	Q421	2SC458(C,D)	SILICON	HITACHI	
	Q422	2SC458(C,D)	SILICON	HITACHI	
	Q441	DTC144ES	SILICON	ROHM	
	Q471	2SC458(C,D)	SILICON	HITACHI	
	Q472	2SC458(C,D)	SILICON	HITACHI	
	Q481	2SC458(C,D)	SILICON	HITACHI	
	Q482	2SC458(C,D)	SILICON	HITACHI	
	Q483	DTC144ES	SILICON	ROHM	
	Q484	DTC144ES	SILICON	ROHM	A
	Q484	DTC144ES	SILICON	ROHM	B
	Q484	DTC144ES	SILICON	ROHM	H

ICs

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	IC301	M5218L-R	I.C.	MITSUBISHI	
	IC302	TC9164N	I.C.	TOSHIBA	
	IC303	NJM4560SD	I.C.	JRC	
	IC421	TC9306F-028BS	I.C.	TOSHIBA	
	IC441	MN17861JSK	I.C.	MATSUSHITA	
	IC501	LA3607S	I.C.	SANYO	
	IC502	LA3607S	I.C.	SANYO	
	IC503	NJM4560SD	I.C.	JRC	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D421	1SS133	SILICON	ROHM	
	D422	1SS133	SILICON	ROHM	
	D423	1SS133	SILICON	ROHM	
	D424	1SS133	SILICON	ROHM	
	D425	1SS133	SILICON	ROHM	
	D426	1SS133	SILICON	ROHM	
	D427	1SS133	SILICON	ROHM	
	D428	1SS133	SILICON	ROHM	
	D429	1SS133	SILICON	ROHM	H
	D430	1SS133	SILICON	ROHM	A
	D432	1SS133	SILICON	ROHM	C
	D432	1SS133	SILICON	ROHM	D
	D432	1SS133	SILICON	ROHM	EBS
	D432	1SS133	SILICON	ROHM	F
	D432	1SS133	SILICON	ROHM	H
	D433	1SS133	SILICON	ROHM	D
	D433	1SS133	SILICON	ROHM	EBS
	D433	1SS133	SILICON	ROHM	H
	D434	1SS133	SILICON	ROHM	B
	D435	1SS133	SILICON	ROHM	
	D436	1SS133	SILICON	ROHM	
	D441	1SS133	SILICON	ROHM	
	D442	1SS133	SILICON	ROHM	
	D443	1SS133	SILICON	ROHM	
	D444	1SS133	SILICON	ROHM	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D445	1SS133	SILICON	ROHM	
	D446	1SS133	SILICON	ROHM	
	D471	1SS133	SILICON	ROHM	
	D481	1SS133	SILICON	ROHM	
	D482	1SS133	SILICON	ROHM	
	D483	1SS133	SILICON	ROHM	
	D484	1SS133	SILICON	ROHM	
	D485	MTZ5.6JC	ZENER	ROHM	
	D501	MTZ6.8JC	ZENER	ROHM	
	D502	MTZ6.8JC	ZENER	ROHM	

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C301	QETB1HM-475	4.7MF	50V	ELECTRO	
	C302	QETB1HM-475	4.7MF	50V	ELECTRO	
	C303	QCS21HJ-101	100PF	50V	CERAMIC	A
	C303	QCS21HJ-101	100PF	50V	CERAMIC	B
	C303	QCS21HJ-101	100PF	50V	CERAMIC	C
	C303	QCS21HJ-101	100PF	50V	CERAMIC	D
	C303	QCS21HJ-101	100PF	50V	CERAMIC	EBS
	C303	QCS21HJ-101	100PF	50V	CERAMIC	H
	C303	QCS21HJ-471	470PF	50V	CERAMIC	F
	C304	QCS21HJ-101	100PF	50V	CERAMIC	A
	C304	QCS21HJ-101	100PF	50V	CERAMIC	B
	C304	QCS21HJ-101	100PF	50V	CERAMIC	C
	C304	QCS21HJ-101	100PF	50V	CERAMIC	D
	C304	QCS21HJ-101	100PF	50V	CERAMIC	EBS
	C304	QCS21HJ-101	100PF	50V	CERAMIC	H
	C304	QCS21HJ-471	470PF	50V	CERAMIC	F
	C305	QFN81HJ-182	1800PF	50V	MYLAR	
	C306	QFN81HJ-182	1800PF	50V	MYLAR	
	C307	QFN81HJ-682	6800PF	50V	MYLAR	
	C308	QFN81HJ-682	6800PF	50V	MYLAR	
	C309	QCS21HJ-101	100PF	50V	CERAMIC	
	C310	QCS21HJ-101	100PF	50V	CERAMIC	
	C313	QETB1HM-475	4.7MF	50V	ELECTRO	
	C314	QETB1HM-475	4.7MF	50V	ELECTRO	
	C315	QETB1CM-107	100MF	16V	ELECTRO	
	C316	QETB1CM-107	100MF	16V	ELECTRO	
	C317	QCF21HP-223	0.022MF	50V	CERAMIC	
	C319	QCS21HJ-101	100PF	50V	CERAMIC	F
	C320	QCS21HJ-101	100PF	50V	CERAMIC	F
	C321	QCS21HJ-331	330PF	50V	CERAMIC	F
	C322	QCS21HJ-331	330PF	50V	CERAMIC	F
	C323	QCS21HJ-331	330PF	50V	CERAMIC	F
	C324	QCS21HJ-331	330PF	50V	CERAMIC	F
	C325	QCS21HJ-331	330PF	50V	CERAMIC	F
	C326	QCS21HJ-331	330PF	50V	CERAMIC	F
	C327	QCF21HP-223	0.022MF	50V	CERAMIC	
	C328	QCF21HP-223	0.022MF	50V	CERAMIC	
	C329	QCF21HP-223	0.022MF	50V	CERAMIC	
	C330	QCF21HP-223	0.022MF	50V	CERAMIC	
	C331	QCS21HJ-151	150PF	50V	CERAMIC	F
	C332	QCS21HJ-151	150PF	50V	CERAMIC	F
	C333	QCS21HJ-101	100PF	50V	CERAMIC	F
	C334	QCS21HJ-101	100PF	50V	CERAMIC	F
	C335	QETB1EM-476	47MF	25V	ELECTRO	
	C336	QETB1EM-476	47MF	25V	ELECTRO	
	C337	QETB1CM-226	22MF	16V	ELECTRO	
	C338	QETB1CM-226	22MF	16V	ELECTRO	
	C339	QETB1CM-226	22MF	16V	ELECTRO	
	C340	QETB1CM-226	22MF	16V	ELECTRO	
	C341	QCS21HJ-101	100PF	50V	CERAMIC	
	C342	QCS21HJ-101	100PF	50V	CERAMIC	
	C343	QETB1CM-226	22MF	16V	ELECTRO	
	C344	QETB1HM-226	22MF	50V	ELECTRO	
	C345	QCS21HJ-221	220PF	50V	CERAMIC	F
	C346	QCS21HJ-221	220PF	50V	CERAMIC	F
	C347	QCS21HJ-221	220PF	50V	CERAMIC	F
	C348	QCS21HJ-221	220PF	50V	CERAMIC	F
	C365	QCS21HJ-101	100PF	50V	CERAMIC	
	C366	QCS21HJ-101	100PF	50V	CERAMIC	
	C421	QETB1AM-107	100MF	10V	ELECTRO	
	C422	QCF21HP-223	0.022MF	50V	CERAMIC	
	C423	QCY21HK-222	2200PF	50V	CERAMIC	
	C441	QETBOJM-477	470MF	6.3V	ELECTRO	
	C442	QCZ0205-155	1.5MF	25V	CERAMIC	
	C481	EEZ0503-479	0.047F	5.5V	ELECTRO	
	C482	QETB1HM-225	2.2MF	50V	ELECTRO	
	C483	QCF21HP-223	0.022MF	50V	CERAMIC	
	C484	QETB1HM-225	2.2MF	50V	ELECTRO	
	C485	QETBOJM-227	220MF	6.3V	ELECTRO	
	C487	QCS21HJ-101	100PF	50V	CERAMIC	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C505	QEK61CM-226	22MF	16V	ELECTRO	
	C506	QEK61CM-226	22MF	16V	ELECTRO	
	C507	QCS21HJ-101	100PF	50V	CERAMIC	
	C508	QCS21HJ-101	100PF	50V	CERAMIC	
	C509	QETB1CM-226	22MF	16V	ELECTRO	
	C510	QETB1CM-226	22MF	16V	ELECTRO	
	C511	QETB1HM-105	1MF	50V	ELECTRO	
	C512	QETB1HM-105	1MF	50V	ELECTRO	
	C513	QFN81HK-683	0.068MF	50V	MYLAR	
	C514	QFN81HK-683	0.068MF	50V	MYLAR	
	C515	QETB1HM-474	0.47MF	50V	ELECTRO	
	C516	QETB1HM-474	0.47MF	50V	ELECTRO	
	C517	QFN81HK-223	0.022MF	50V	MYLAR	
	C518	QFN81HK-223	0.022MF	50V	MYLAR	
	C519	QFN81HK-154	0.15MF	50V	MYLAR	
	C520	QFN81HK-154	0.15MF	50V	MYLAR	
	C521	QFN81HK-103	0.01MF	50V	MYLAR	
	C522	QFN81HK-103	0.01MF	50V	MYLAR	
	C523	QFN81HK-683	0.068MF	50V	MYLAR	
	C524	QFN81HK-683	0.068MF	50V	MYLAR	
	C525	QCY21HK-392	3900PF	50V	CERAMIC	
	C526	QCY21HK-392	3900PF	50V	CERAMIC	
	C527	QFN81HK-273	0.027MF	50V	MYLAR	
	C528	QFN81HK-273	0.027MF	50V	MYLAR	
	C529	QFN81HK-152	1500PF	50V	MYLAR	
	C530	QFN81HK-152	1500PF	50V	MYLAR	
	C531	QFN81HK-103	0.01MF	50V	MYLAR	
	C532	QFN81HK-103	0.01MF	50V	MYLAR	
	C533	QCY21HK-681	680PF	50V	CERAMIC	
	C534	QCY21HK-681	680PF	50V	CERAMIC	
	C535	QCY21HK-562	5600PF	50V	CERAMIC	
	C536	QCY21HK-562	5600PF	50V	CERAMIC	
	C537	QCS21HJ-221	220PF	50V	CERAMIC	
	C538	QCS21HJ-221	220PF	50V	CERAMIC	
	C539	QEK61CM-226	22MF	16V	ELECTRO	
	C540	QEK61CM-226	22MF	16V	ELECTRO	
	C541	QETB1CM-226	22MF	16V	ELECTRO	
	C542	QETB1CM-226	22MF	16V	ELECTRO	
	C543	QEK61CM-226	22MF	16V	ELECTRO	
	C544	QEK61CM-226	22MF	16V	ELECTRO	
	C545	QCS21HJ-330	33PF	50V	CERAMIC	
	C546	QCS21HJ-330	33PF	50V	CERAMIC	
	C547	QCF21HP-223	0.022MF	50V	CERAMIC	
	C548	QCF21HP-223	0.022MF	50V	CERAMIC	

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
△	R001	QRC128K-275EM	2.7M	1/2W	COMPOSI	A
	R301	QRD167J-222	2.2K	1/6W	CARBON	
	R302	QRD167J-222	2.2K	1/6W	CARBON	
	R303	QRD167J-473	47K	1/6W	CARBON	
	R304	QRD167J-473	47K	1/6W	CARBON	
	R305	QRD167J-511	510	1/6W	CARBON	
	R306	QRD167J-511	510	1/6W	CARBON	
	R307	QRD167J-393	39K	1/6W	CARBON	
	R308	QRD167J-393	39K	1/6W	CARBON	
	R309	QRD167J-474	470K	1/6W	CARBON	
	R310	QRD167J-474	470K	1/6W	CARBON	
	R311	QRD167J-104	100K	1/6W	CARBON	
	R312	QRD167J-104	100K	1/6W	CARBON	
	R313	QRD167J-221	220	1/6W	CARBON	
	R314	QRD167J-221	220	1/6W	CARBON	
	R315	QRD167J-221	220	1/6W	CARBON	A
	R315	QRD167J-221	220	1/6W	CARBON	B
	R315	QRD167J-221	220	1/6W	CARBON	C
	R315	QRD167J-221	220	1/6W	CARBON	D
	R315	QRD167J-221	220	1/6W	CARBON	EBS
	R315	QRD167J-221	220	1/6W	CARBON	H
	R315	QRD167J-222	2.2K	1/6W	CARBON	F
	R316	QRD167J-221	220	1/6W	CARBON	A
	R316	QRD167J-221	220	1/6W	CARBON	B
	R316	QRD167J-221	220	1/6W	CARBON	C
	R316	QRD167J-221	220	1/6W	CARBON	D
	R316	QRD167J-221	220	1/6W	CARBON	EBS
	R316	QRD167J-221	220	1/6W	CARBON	H
	R316	QRD167J-222	2.2K	1/6W	CARBON	F
	R317	QRD167J-221	220	1/6W	CARBON	
	R318	QRD167J-221	220	1/6W	CARBON	
	R319	QRD167J-221	220	1/6W	CARBON	A
	R319	QRD167J-221	220	1/6W	CARBON	B
	R319	QRD167J-221	220	1/6W	CARBON	C
	R319	QRD167J-221	220	1/6W	CARBON	D

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R319	QRD167J-221	220	1/6W	CARBON	EBS
	R319	QRD167J-221	220	1/6W	CARBON	H
	R319	QRD167J-222	2.2K	1/6W	CARBON	F
	R320	QRD167J-221	220	1/6W	CARBON	A
	R320	QRD167J-221	220	1/6W	CARBON	B
	R320	QRD167J-221	220	1/6W	CARBON	C
	R320	QRD167J-221	220	1/6W	CARBON	D
	R320	QRD167J-221	220	1/6W	CARBON	EBS
	R320	QRD167J-221	220	1/6W	CARBON	H
	R320	QRD167J-222	2.2K	1/6W	CARBON	F
	R321	QRD167J-221	220	1/6W	CARBON	
	R322	QRD167J-221	220	1/6W	CARBON	
	R323	QRD167J-331	330	1/6W	CARBON	
	R324	QRD167J-331	330	1/6W	CARBON	
	R329	QRD167J-104	100K	1/6W	CARBON	
	R330	QRD167J-104	100K	1/6W	CARBON	
	R331	QRD167J-124	120K	1/6W	CARBON	
	R332	QRD167J-124	120K	1/6W	CARBON	
	R333	QRD167J-124	120K	1/6W	CARBON	
	R334	QRD167J-124	120K	1/6W	CARBON	
	R420	QRD167J-103	10K	1/6W	CARBON	
	R421	QRD167J-103	10K	1/6W	CARBON	
	R422	QRD167J-103	10K	1/6W	CARBON	
	R423	QRD167J-103	10K	1/6W	CARBON	
	R424	QRD167J-471	470	1/6W	CARBON	
	R425	QRD167J-103	10K	1/6W	CARBON	
	R426	QRD167J-103	10K	1/6W	CARBON	
	R427	QRD167J-473	47K	1/6W	CARBON	
	R428	QRD167J-223	22K	1/6W	CARBON	
	R429	QRD167J-104	100K	1/6W	CARBON	
	R441	QRD167J-102	1K	1/6W	CARBON	
	R442	QRD167J-102	1K	1/6W	CARBON	
	R443	QRD167J-104	100K	1/6W	CARBON	
	R444	QRD167J-104	100K	1/6W	CARBON	
	R445	QRD167J-104	100K	1/6W	CARBON	
	R446	QRD167J-104	100K	1/6W	CARBON	
	R447	QRD167J-104	100K	1/6W	CARBON	
	R448	QRD167J-104	100K	1/6W	CARBON	
	R449	QRD167J-104	100K	1/6W	CARBON	
	R450	QRD167J-104	100K	1/6W	CARBON	
	R451	QRD167J-104	100K	1/6W	CARBON	
	R452	QRD167J-104	100K	1/6W	CARBON	
	R453	QRD167J-104	100K	1/6W	CARBON	
	R454	QRD167J-104	100K	1/6W	CARBON	
	R455	QRD167J-104	100K	1/6W	CARBON	
	R456	QRD167J-104	100K	1/6W	CARBON	
	R457	QRD167J-104	100K	1/6W	CARBON	
	R458	QRD167J-473	47K	1/6W	CARBON	
	R459	QRD167J-473	47K	1/6W	CARBON	
	R460	QRD167J-473	47K	1/6W	CARBON	
	R461	QRD167J-473	47K	1/6W	CARBON	
	R462	QRD167J-102	1K	1/6W	CARBON	
	R463	QRD167J-104	100K	1/6W	CARBON	
	R471	QRD167J-473	47K	1/6W	CARBON	
	R472	QRD167J-471	470	1/6W	CARBON	
	R473	QRD167J-473	47K	1/6W	CARBON	
	R474	QRD167J-223	22K	1/6W	CARBON	
	R475	QRD167J-103	10K	1/6W	CARBON	
	R481	QRD167J-473	47K	1/6W	CARBON	
	R482	QRD167J-472	4.7K	1/6W	CARBON	
	R483	QRD167J-102	1K	1/6W	CARBON	
	R484	QRD167J-332	3.3K	1/6W	CARBON	
	R485	QRD167J-473	47K	1/6W	CARBON	
	R486	QRD167J-223	22K	1/6W	CARBON	
	R487	QRD167J-223	22K	1/6W	CARBON	
	R488	QRD167J-473	47K	1/6W	CARBON	
	R489	QRD167J-331	330	1/6W	CARBON	
	R509	QRD167J-472	4.7K	1/6W	CARBON	
	R510	QRD167J-472	4.7K	1/6W	CARBON	
	R511	QRD167J-472	4.7K	1/6W	CARBON	
	R512	QRD167J-472	4.7K	1/6W	CARBON	
	R517	QRD167J-103	10K	1/6W	CARBON	
	R518	QRD167J-103	10K	1/6W	CARBON	
	R519	QRD167J-103	10K	1/6W	CARBON	
	R520	QRD167J-103	10K	1/6W	CARBON	
	R521	QRD167J-104	100K	1/6W	CARBON	
	R522	QRD167J-104	100K	1/6W	CARBON	
⚠	R523	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R523	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R523	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R523	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R523	QRZ0077-680	68	1/4W	FUSIBLE	EB
⚠	R523	QRZ0077-680	68	1/4W	FUSIBLE	F
⚠	R523	QRZ0077-680	68	1/4W	FUSIBLE	H
⚠	R524	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R524	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R524	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R524	QRZ0077-680	68	1/4W	FUSIBLE	D

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R524	QRZ0077-680	68	1/4W	FUSIBLE	EBS
⚠	R524	QRZ0077-680	68	1/4W	FUSIBLE	F
⚠	R524	QRZ0077-680	68	1/4W	FUSIBLE	H
⚠	R527	QRD125J-271	270	1/2W	UNF.CARBON	
⚠	R528	QRD125J-271	270	1/2W	UNF.CARBON	A
⚠	R528	QRD125J-271	270	1/2W	UNF.CARBON	B
⚠	R528	QRZ0077-391	390	1/4W	FUSIBLE	C
⚠	R528	QRZ0077-391	390	1/4W	FUSIBLE	D
⚠	R528	QRZ0077-391	390	1/4W	FUSIBLE	EBS
⚠	R528	QRZ0077-391	390	1/4W	FUSIBLE	F
⚠	R528	QRZ0077-391	390	1/4W	FUSIBLE	H
	VR501	QVUB01W-EF5D	250K		VARIABLE	
	VR502	QVUB01W-EF5D	250K		VARIABLE	
	VR503	QVUB01W-EF5D	250K		VARIABLE	
	VR504	QVUB01W-EF5D	250K		VARIABLE	
	VR505	QVUB01W-EF5D	250K		VARIABLE	
	VR506	QVUB01W-EF5D	250K		VARIABLE	
	VR507	QVUB01W-EF5D	250K		VARIABLE	

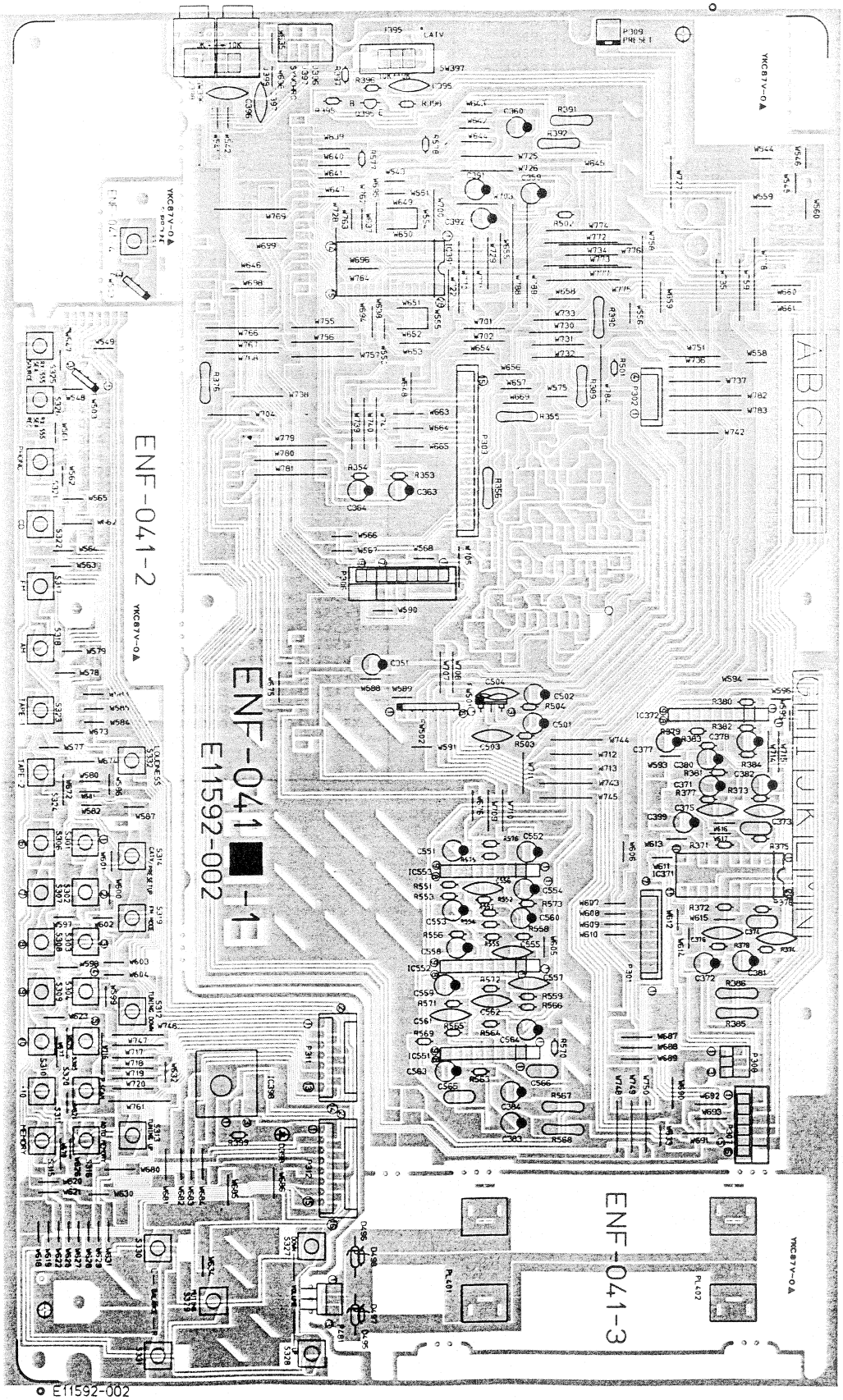
Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMG7331-001	FUSE CLIP	C
		EMG7331-001	FUSE CLIP	D
		EMG7331-001	FUSE CLIP	EBS
		EMG7331-001	FUSE CLIP	F
		EMG7331-001	FUSE CLIP	H
		E11594-003	CIRCUIT BOARD	A
		E11594-003	CIRCUIT BOARD	B
		E11594-003	CIRCUIT BOARD	C
		E11594-003	CIRCUIT BOARD	D
		E11594-003	CIRCUIT BOARD	F
		E11594-003	CIRCUIT BOARD	H
		E11594-003BS	CIRCUIT BOARD	EBS
		E45524-002	FUSE CLIP	A
		E65508-002	TAB	
		E67764-102	WRAPPING TERMINAL	
		E67764-202	WRAPPING TERMINAL	
		E67764-202	WRAPPING TERMINAL	C
		E67764-202	WRAPPING TERMINAL	D
		E67764-202	WRAPPING TERMINAL	EBS
		E67764-202	WRAPPING TERMINAL	F
		E67764-202	WRAPPING TERMINAL	H
		E70859-001	EARTH PLATE	A
⚠		QMC0437-002	AC OUTLET	B
⚠		QMC0440-001	AC OUTLET	A
	J301	EMN00TV-405A	4P PIN JACK	
	J302	EMN00TV-402A	4P PIN JACK	
	J303	EMN00TV-405A	4P PIN JACK	
	P303	EMV7125-015R	CONNECTOR	
	P311	EMV5128-014	PLUG ASSY	
	P312	EMV5128-016	PLUG ASSY	
	P501	EMV7112-003	CONNECTOR	
	P502	EMV7112-006	CONNECTOR	
	P801	QMV5004-004K	PLUG ASSY	
	FW201	EWR37B-13KST	FLAT WIRE	
	FW306	EWR37B-16KST	FLAT WIRE	A
	FW306	EWR37B-16KST	FLAT WIRE	C
	FW306	EWR37B-16KST	FLAT WIRE	D
	FW306	EWR37B-16KST	FLAT WIRE	EBS
	FW306	EWR37B-16KST	FLAT WIRE	F
	FW306	EWR37B-16KST	FLAT WIRE	H
	FW306	EWR39B-16KST	FLAT WIRE	B
	FW521	EWR37B-08SST	FLAT WIRE	
	FW522	EWR37B-08SST	FLAT WIRE	
	FW523	EWR35B-08SST	FLAT WIRE	
	LC421	ELU0002-043	LCD PANEL	
	XT421	ECX0072-000EM	RESONATOR	
	XT441	ECX0072-000EM	RESONATOR	

⚠ : SAFETY PARTS

■ ENF-041□ Surround & Switch PC Board Ass'y

Note: ENF-041□ Varies according to the areas employed. See note (1) when placing an order.



E11592-002

Note (1)

PC Board Ass'y	Designated Areas
ENF-041 [A]	U.S.A. & Canada
ENF-041 [B]	U.S. Military Market & Other Countries
ENF-041 [C]	Europe, Australia, U.K., Italy
ENF-041 [D]	West Germany

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	Q395	2SC1685(Q,R)	SILICON	MATSUSHITA	A

ICs

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	IC371	TC9177P	I.C.	TOSHIBA	
	IC372	NJM4560SD	I.C.	JRC	
	IC391	TC9162N	I.C.	TOSHIBA	
	IC398	AIQH3021HO	I.C.	SHARP	
	IC551	NJM4558S	I.C.	JRC	
	IC552	NJM4558S	I.C.	JRC	
	IC553	NJM4558S	I.C.	JRC	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D398	SLH-34VC3F	L.E.D.	ROHM	
	D495	RD12EB3	ZENER	NEC	C
	D495	RD12EB3	ZENER	NEC	D
	D496	RD12EB3	ZENER	NEC	C
	D496	RD12EB3	ZENER	NEC	D
	D497	MTZ12JC	ZENER	ROHM	A
	D497	MTZ12JC	ZENER	ROHM	B
	D498	MTZ12JC	ZENER	ROHM	A
	D498	MTZ12JC	ZENER	ROHM	B

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C371	EEZ1005-106	10MF	100V	ELECTRO	
	C372	EEZ1005-106	10MF	100V	ELECTRO	
	C373	QFN81HK-333	0.033MF	50V	MYLAR	
	C374	QFN81HK-333	0.033MF	50V	MYLAR	
	C375	QCS21HJ-181	180PF	50V	CERAMIC	
	C376	QCS21HJ-181	180PF	50V	CERAMIC	
	C377	QEK61HM-105G	1MF	50V	ELECTRO	
	C378	QEK61HM-105G	1MF	50V	ELECTRO	
	C379	QEK61CM-106G	10MF	16V	ELECTRO	
	C380	QEK61CM-106G	10MF	16V	ELECTRO	
	C381	QETB1EM-476	47MF	25V	ELECTRO	
	C382	QETB1HM-476	47MF	50V	ELECTRO	
	C383	QETB1EM-476	47MF	25V	ELECTRO	
	C384	QETB1HM-476	47MF	50V	ELECTRO	
	C389	QCY21HK-472	4700PF	50V	CERAMIC	
	C390	QCY21HK-472	4700PF	50V	CERAMIC	
	C391	QETB1EM-476	47MF	25V	ELECTRO	
	C392	QETB1EM-476	47MF	25V	ELECTRO	
	C395	QCF21HP-223	0.022MF	50V	CERAMIC	A
	C397	QCF21HP-223	0.022MF	50V	CERAMIC	

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C501	QETB1HM-475	4.7MF	50V	ELECTRO	
	C502	QETB1HM-475	4.7MF	50V	ELECTRO	
	C503	QCS21HJ-470	47PF	50V	CERAMIC	
	C504	QCS21HJ-470	47PF	50V	CERAMIC	
	C551	QETB1CM-226	22MF	16V	ELECTRO	
	C552	QETB1CM-226	22MF	16V	ELECTRO	
	C553	QETB1CM-226	22MF	16V	ELECTRO	
	C554	QETB1CM-226	22MF	16V	ELECTRO	
	C555	QCS21HJ-100	10PF	50V	CERAMIC	
	C556	QCS21HJ-100	10PF	50V	CERAMIC	
	C557	QCY21HK-682	6800PF	50V	CERAMIC	
	C558	QETB1HM-105	1MF	50V	ELECTRO	
	C559	QETB1CM-226	22MF	16V	ELECTRO	
	C560	QETB1CM-226	22MF	16V	ELECTRO	
	C561	QCS21HJ-101	100PF	50V	CERAMIC	
	C562	QCS21HJ-101	100PF	50V	CERAMIC	
	C563	QETB1HM-475	4.7MF	50V	ELECTRO	
	C564	QETB1HM-475	4.7MF	50V	ELECTRO	
	C565	QFN81HK-223	0.022MF	50V	MYLAR	
	C566	QFN81HK-223	0.022MF	50V	MYLAR	

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R355	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R355	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R355	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R355	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R356	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R356	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R356	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R356	QRZ0077-680	68	1/4W	FUSIBLE	D
	R371	QRD167J-274	270K	1/6W	CARBON	
	R372	QRD167J-274	270K	1/6W	CARBON	
	R373	QRD167J-105	1M	1/6W	CARBON	
	R374	QRD167J-105	1M	1/6W	CARBON	
	R375	QRD167J-563	56K	1/6W	CARBON	
	R376	QRD167J-563	56K	1/6W	CARBON	
	R377	QRD167J-563	56K	1/6W	CARBON	
	R378	QRD167J-563	56K	1/6W	CARBON	
	R379	QRD167J-103	10K	1/6W	CARBON	
	R380	QRD167J-103	10K	1/6W	CARBON	
	R381	QRD167J-103	10K	1/6W	CARBON	
	R382	QRD167J-103	10K	1/6W	CARBON	
	R383	QRD167J-105	1M	1/6W	CARBON	
	R384	QRD167J-105	1M	1/6W	CARBON	
⚠	R385	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R385	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R385	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R385	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R386	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R386	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R386	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R386	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R391	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R391	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R391	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R391	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R392	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R392	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R392	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R392	QRZ0077-680	68	1/4W	FUSIBLE	D
	R395	QRD167J-103	10K	1/6W	CARBON	A
	R396	QRD167J-101	100	1/6W	CARBON	A
	R397	QRD167J-221	220	1/6W	CARBON	A
	R398	QRD167J-103	10K	1/6W	CARBON	A
	R399	QRD167J-221	220	1/6W	CARBON	
	R501	QRD167J-513	51K	1/6W	CARBON	
	R502	QRD167J-513	51K	1/6W	CARBON	
	R503	QRD167J-105	1M	1/6W	CARBON	
	R504	QRD167J-105	1M	1/6W	CARBON	
	R551	QRD167J-104	100K	1/6W	CARBON	
	R552	QRD167J-104	100K	1/6W	CARBON	
	R553	QRD167J-103	10K	1/6W	CARBON	
	R554	QRD167J-103	10K	1/6W	CARBON	
	R555	QRD167J-332	3.3K	1/6W	CARBON	
	R556	QRD167J-104	100K	1/6W	CARBON	
	R557	QRD167J-104	100K	1/6W	CARBON	
	R558	QRD167J-682	6.8K	1/6W	CARBON	
	R559	QRD167J-103	10K	1/6W	CARBON	
	R563	QRD167J-103	10K	1/6W	CARBON	
	R564	QRD167J-103	10K	1/6W	CARBON	
	R565	QRD167J-103	10K	1/6W	CARBON	
	R566	QRD167J-154	150K	1/6W	CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R567	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R567	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R567	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R567	QRZ0077-680	68	1/4W	FUSIBLE	D
⚠	R568	QRD14CJ-680S	68	1/4W	UNF.CARBON	A
⚠	R568	QRD14CJ-680S	68	1/4W	UNF.CARBON	B
⚠	R568	QRZ0077-680	68	1/4W	FUSIBLE	C
⚠	R568	QRZ0077-680	68	1/4W	FUSIBLE	D
	R569	QRD167J-104	100K	1/6W	CARBON	
	R570	QRD167J-104	100K	1/6W	CARBON	
	R571	QRD167J-154	150K	1/6W	CARBON	
	R572	QRD167J-103	10K	1/6W	CARBON	
	R573	QRD167J-103	10K	1/6W	CARBON	
	R575	QRD167J-474	470K	1/6W	CARBON	
	R576	QRD167J-474	470K	1/6W	CARBON	
	R577	QRD167J-154	150K	1/6W	CARBON	
	R578	QRD167J-154	150K	1/6W	CARBON	

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E11592-003	CIRCUIT BOARD	
		E45524-002	FUSE CLIP	
		E48269-001	SPACER	C
		E48269-001	SPACER	D
	J395	EMZ1004-001	SOCKET	A
	J396	QMS3533-001	MINI JACK	
	J397	QMS3533-001	MINI JACK	
	P301	EMV5125-007	PLUG ASSY	
	P302	EMV5125-004	PLUG ASSY	
	P303	EMV5125-015	PLUG ASSY	
	P306	EMV7112-007	CONNECTOR	A
	P306	EMV7112-007	CONNECTOR	C
	P306	EMV7112-007	CONNECTOR	D
	P306	EMV7112-009	CONNECTOR	B
	P307	EMV7112-005	CONNECTOR	
	P308	EMV7122-003Z	CONNECTOR	
	P309	QMV5005-002K	PLUG ASSY	
	P311	EMV7128-014	CONNECTOR	
	P312	EMV7128-016	CONNECTOR	
	P481	QMV5004-003K	PLUG ASSY	

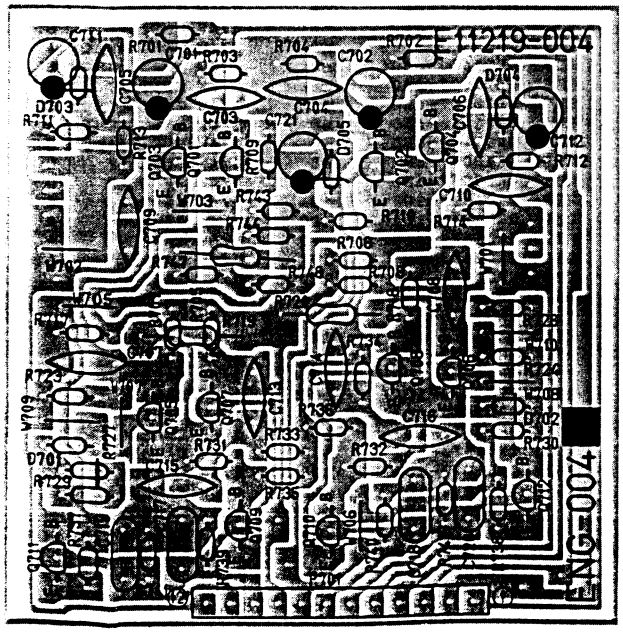
Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	S301	ESP0001-018	TACT SWITCH	
	S302	ESP0001-018	TACT SWITCH	
	S303	ESP0001-018	TACT SWITCH	
	S304	ESP0001-018	TACT SWITCH	
	S305	ESP0001-018	TACT SWITCH	
	S306	ESP0001-018	TACT SWITCH	
	S307	ESP0001-018	TACT SWITCH	
	S308	ESP0001-018	TACT SWITCH	
	S309	ESP0001-018	TACT SWITCH	
	S310	ESP0001-018	TACT SWITCH	
	S311	ESP0001-018	TACT SWITCH	
	S312	ESP0001-018	TACT SWITCH	
	S313	ESP0001-018	TACT SWITCH	
	S314	ESP0001-018	TACT SWITCH	
	S315	ESP0001-018	TACT SWITCH	
	S316	ESP0001-018	TACT SWITCH	
	S317	ESP0001-018	TACT SWITCH	
	S318	ESP0001-018	TACT SWITCH	
	S319	ESP0001-018	TACT SWITCH	
	S320	ESP0001-018	TACT SWITCH	
	S321	ESP0001-018	TACT SWITCH	
	S322	ESP0001-018	TACT SWITCH	
	S323	ESP0001-018	TACT SWITCH	
	S324	ESP0001-018	TACT SWITCH	
	S325	ESP0001-018	TACT SWITCH	
	S326	ESP0001-018	TACT SWITCH	
	S327	ESP0001-018	TACT SWITCH	
	S328	ESP0001-018	TACT SWITCH	
	S329	ESP0001-018	TACT SWITCH	
	S330	ESP0001-018	TACT SWITCH	
	S331	ESP0001-018	TACT SWITCH	
	S332	ESP0001-018	TACT SWITCH	
	S333	ESP0001-018	TACT SWITCH	
	S396	QSS1F22-E01	SLIDE SWITCH	B
	FW501	EWR23C-35JN	FLAT WIRE	
	FW502	EWR36B-35KST	FLAT WIRE	
	FW503	EWR33B-20SST	FLAT WIRE	

⚠ : SAFETY PARTS

■ ENG-004□ Pre-driver Module PC Board Ass'y

Note: Varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENG-004 G	U.S.A., Cadana, U.S. Military Market & Other Countries
ENG-004 H	Europe, Australia, U.K.
ENG-004 I	West Germany

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
				MAKER	
	Q701	2SC2240(A,B)	SILICON	TOSHIBA	
	Q702	2SC2240(A,B)	SILICON	TOSHIBA	
	Q703	2SC2240(A,B)	SILICON	TOSHIBA	
	Q704	2SC2240(A,B)	SILICON	TOSHIBA	
	Q705	2SA1038(S,E)	SILICON	ROHM	

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	Q706	2SA1038(S,E)	SILICON	ROHM	
	Q707	2SA933LN(R,S)	SILICON	ROHM	
	Q708	2SA933LN(R,S)	SILICON	ROHM	
	Q709	2SA1038(S,E)	SILICON	ROHM	
	Q710	2SA1038(S,E)	SILICON	ROHM	
	Q711	2SC2389(S,E)	SILICON	ROHM	
	Q712	2SC2389(S,E)	SILICON	ROHM	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	MAKER	AREA
	D701	1SS133	SILICON	ROHM	
	D702	1SS133	SILICON	ROHM	
	D704	1SS133	SILICON	ROHM	H
	D704	1SS133	SILICON	ROHM	I
	D705	MTZ22JC	ZENER	ROHM	

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	C701	EEZ1005-106	10MF	100V	ELECTRO	
	C702	EEZ1005-106	10MF	100V	ELECTRO	
	C703	QCS21HJ-271	270PF	50V	CERAMIC	
	C704	QCS21HJ-271	270PF	50V	CERAMIC	
	C705	QCS21HJ-101	100PF	50V	CERAMIC	
	C706	QCS21HJ-101	100PF	50V	CERAMIC	
	C707	QCY21HK-332	3300PF	50V	CERAMIC	
	C708	QCY21HK-332	3300PF	50V	CERAMIC	
	C709	QCS21HJ-7R0	7PF	50V	CERAMIC	
	C710	QCS21HJ-7R0	7PF	50V	CERAMIC	
	C711	QETB1CM-476	47MF	16V	ELECTRO	
	C712	QETB1CM-476	47MF	16V	ELECTRO	
	C713	QCS31HJ-220	22PF	50V	CERAMIC	
	C714	QCS31HJ-220	22PF	50V	CERAMIC	
	C715	QCS21HJ-121	120PF	50V	CERAMIC	
	C716	QCS21HJ-121	120PF	50V	CERAMIC	
	C717	QFN81HJ-822	8200PF	50V	MYLAR	
	C718	QFN81HJ-822	8200PF	50V	MYLAR	
	C719	QFN81HJ-822	8200PF	50V	MYLAR	
	C720	QFN81HJ-822	8200PF	50V	MYLAR	
	C721	QETB1EM-106	10MF	25V	ELECTRO	

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R701	QRD167J-222	2.2K	1/6W	CARBON	
	R702	QRD167J-222	2.2K	1/6W	CARBON	
	R703	QRD167J-104	100K	1/6W	CARBON	
	R704	QRD167J-104	100K	1/6W	CARBON	
	R705	QRD167J-202	2K	1/6W	CARBON	
	R706	QRD167J-202	2K	1/6W	CARBON	
	R707	QRD167J-202	2K	1/6W	CARBON	
	R708	QRD167J-202	2K	1/6W	CARBON	
	R709	QRD167J-103	10K	1/6W	CARBON	
	R710	QRD167J-103	10K	1/6W	CARBON	
	R711	QRD167J-202	2K	1/6W	CARBON	
	R712	QRD167J-202	2K	1/6W	CARBON	
	R713	QRD167J-104	100K	1/6W	CARBON	
	R714	QRD167J-104	100K	1/6W	CARBON	
	R717	QRD167J-101	100	1/6W	CARBON	
	R718	QRD167J-101	100	1/6W	CARBON	
⚠	R719	QRD145J-121S	120	1/4W	UNF.CARBON	
⚠	R720	QRD145J-121S	120	1/4W	UNF.CARBON	
	R723	QRD144J-472S	4.7K	1/4W	CARBON	
	R724	QRD144J-472S	4.7K	1/4W	CARBON	
	R727	QRD144J-472S	4.7K	1/4W	CARBON	
	R728	QRD144J-472S	4.7K	1/4W	CARBON	
	R729	QRD167J-391	390	1/6W	CARBON	
	R730	QRD167J-391	390	1/6W	CARBON	
	R731	QRD167J-152	1.5K	1/6W	CARBON	
	R732	QRD167J-152	1.5K	1/6W	CARBON	
	R733	QRD167J-152	1.5K	1/6W	CARBON	
	R734	QRD167J-152	1.5K	1/6W	CARBON	
	R735	QRD167J-333	33K	1/6W	CARBON	
	R736	QRD167J-333	33K	1/6W	CARBON	
	R737	QRD167J-391	390	1/6W	CARBON	
	R738	QRD167J-391	390	1/6W	CARBON	
	R739	QRD167J-682	6.8K	1/6W	CARBON	
	R740	QRD167J-682	6.8K	1/6W	CARBON	
	R741	QRD167J-682	6.8K	1/6W	CARBON	
	R742	QRD167J-682	6.8K	1/6W	CARBON	
	R743	QRD167J-511	510	1/6W	CARBON	
	R744	QRD167J-511	510	1/6W	CARBON	
⚠	R745	QRD125J-182	1.8K	1/2W	UNF.CARBON	
	R747	QRD167J-511	510	1/6W	CARBON	
	R748	QRD167J-511	510	1/6W	CARBON	

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E11219-004	CIRCUIT BOARD	G
		E11219-004	CIRCUIT BOARD	H
		E11219-004	CIRCUIT BOARD	I
	P701	EMV5101-012B	PLUG ASSY	

⚠ : SAFETY PARTS

Accessories List

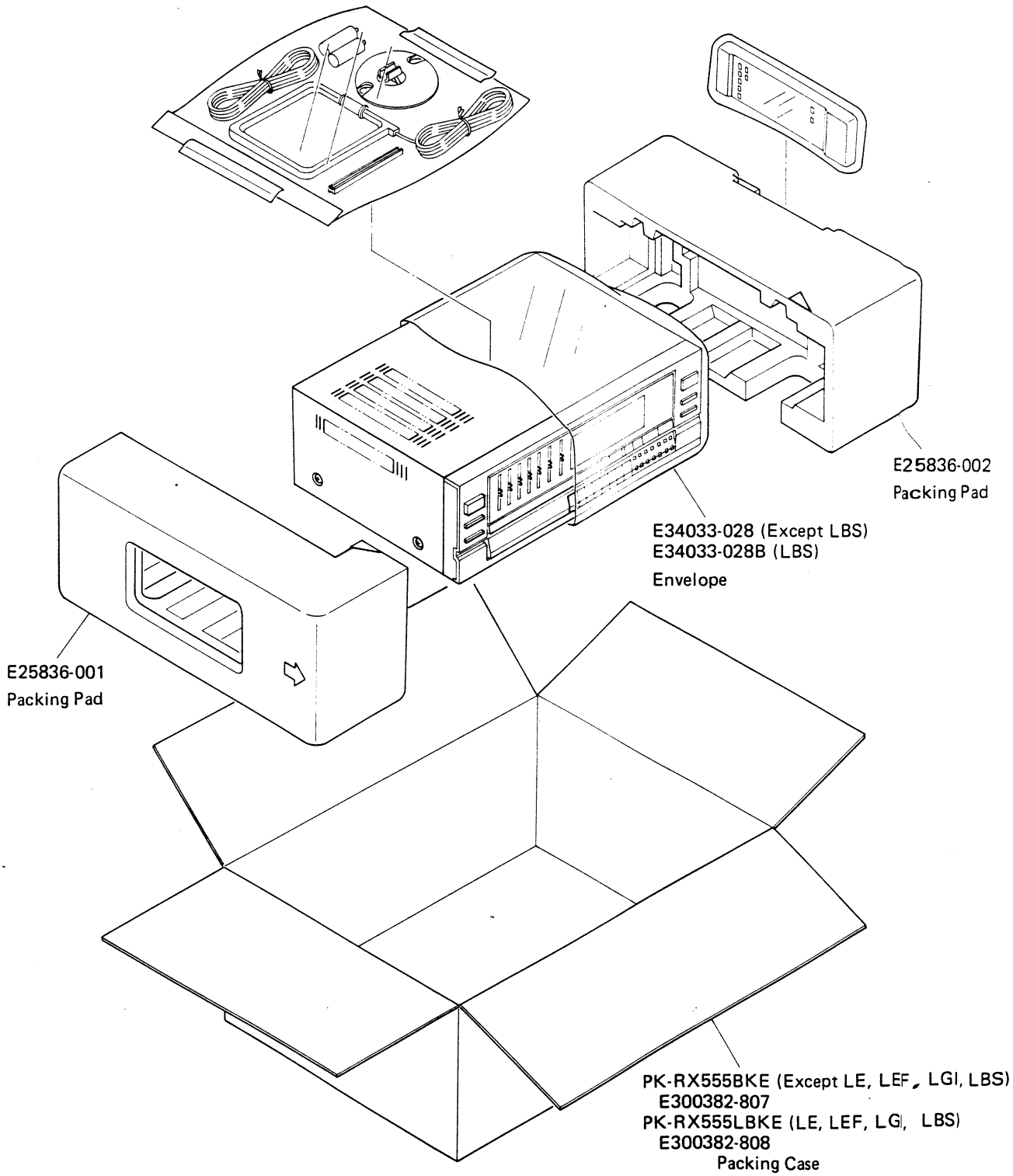
⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
		E30580-1433A	Instruction Book	1		Except LBS
		E30580-1433ABS	Instruction Book	1		LBS
		BT20025K	Warranty Card	1		C
		BT20048B	Warranty Card	1		J, P, PG
		BT20029C	Warranty Card	1		A
		BT20064A	Warranty Card	1		G
		BT20060	Warranty Card	1		LBS
		BT20098	Audio Warranty	1		A
		BT20071A	Servic Center List	1		C
		BT20046C	Servic Information	1		J, P, PG
		BT20066	EEC Agency	1		G
		BT20044E	Safety Instruction Sheet	1		J
		QZL1008-001	FTZ Information	1		G
		EQB4001-012	AM Loop Antena	1		
		E304084-001	Loop Stand	1		
		EWP502-001	Built in Antenna	1		Except G
		E67007-001	Wire Antenna Ass'y	1		G
		EMZ2001-007	Adapter	1		LE, LEF
		UM-3(DJ)	Battery	2		
		E41202-2	Envelope	1		Except LBS
		E41202-2B	Envelope	1		LBS
		QMF51A2-4R0S	Fuse	1		U, PG
		QMF51A2-2R0S	Fuse	1		P
		E67142-T4R0	Fuse Label	1		U, PG
		E67142-T2R0	Fuse Label	1		P
		RM-SR555	Remote Controler	1		
⚠		E04056	Siemens Plug	1		U, PG
		E6581-4	Envelope	1	Fuse	U, P, PG
		E66416-003	Envelope	1	Warranty Card	J

⚠ : Safety Parts

The Marks for Designated Areas.

J ..... U.S.A.
C ..... Canada
A ..... Australia
G ..... West Germany
E, EF ..... Europe
LE, LEF ..... Europe (with LW)
LGI ..... Italy (with LW)
LBS ..... U.K.
P, PG ..... U.S. Military Market
U ..... Other Countries
No mark indicates all areas.

Packing Materials and Parts List



The Marks for Designated Areas.

J ..... U.S.A.	LGI ..... Italy (with LW)
C ..... Canada	LBS ..... U.K.
A ..... Australia	P, PG ..... U.S. Military Market
G ..... West Germany	U ..... Other Countries
E, EF ..... Europe	No mark indicates all areas.
LE, LEF ..... Europe (with LW)	